



The

# CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3384  
L. CXLII

DECEMBER 16, 1944

Annual Subscription (with  
Diary) 25/- Single copies 9d.



## Seasonal NOW!

FOR COUGHS, COLDS, CATARRH,  
MEGGEZONES ARE THE FOREMOST  
PREPARATION FOR RELIEVING  
THE MOST ACUTE CATARRHAL  
CONDITIONS

Supplies are not unlimited but  
even distribution is being effected.



MADE AND GUARANTEED BY  
MEGGESON & CO. LTD., LONDON. S.E.16.

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## A New Parke-Davis Product

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# THEELIN

## (Aqueous Suspension)

•

Theelin (Keto-hydroxyœstratriene)—the ovarian hormone first isolated from pregnancy urine by Dr. E. A. Doisy—is sparingly soluble in water and, hitherto, preparations for intramuscular injection have usually been solutions of the hormone in oil. In Theelin (Aqueous Suspension) the œstrogenic hormone is *suspended* in normal saline solution, each c.c. containing 2 mgm. (20,000 International units). Thus a high dosage of œstrone is provided in small volume and in a well-tolerated vehicle.

*Supplied in boxes of six 1 c.c. ampoules.*

•

**PARKE, DAVIS & CO.**  
**50 Beak St., London, W.1.**

*Inc. U.S.A., Liability Ltd.*

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# We think you ought to know . . .

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In the sixth winter of the war it is inevitable that difficulties should arise from time to time, and we are sure that our customers, many of whom are old and trusted friends, understand and appreciate the position simply because they have so many problems of their own.

But in order to maintain goodwill and to make our relationship as smooth as possible we think you ought to know something of our particular problems.

The most important at the moment is that owing to the shortage of raw materials we cannot always supply the size, quantity or pack ordered. But we have an unwritten rule that your requirements should be filled as nearly as possible. When this does not occur you may rest assured that it is due entirely to circumstances beyond our control.

We hope that before long a return to more normal trading conditions will be possible. Meanwhile, we thank you for your forbearance and support.

**PATA**

**MILTON ANTISEPTIC LTD.**

**CHAPEL LANE. SANDS. HIGH WYCOMBE. BUCKS**

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## A Quality Product in Popular Demand

'VIMALTOL' is a delicious body-building, restorative and vitamin food of the highest quality, which offers exceptional sales possibilities to the Pharmacist. It has a delightfully sweet orange flavour, which makes it readily acceptable to children or adults.

The vitamins in 'Vimaltol' are supplied from specially prepared Malt Extract and Yeast, which is one of the richest natural sources of vitamin B, together with Halibut Liver Oil fortified with additional vitamins. 'Vimaltol' thus possesses definite advantages for increasing strength, maintaining normal weight, and fortifying resistance against winter ills.

The intrinsic merit of the product, and widespread advertising, have created a popular demand which you can turn to your advantage by ordering stocks now and displaying 'Vimaltol' prominently.

# VIMALTOL

The Delicious Body-building, Restorative and  
Vitamin Food for Infants, Children and Adults.

On the P.A.T.A.

Wholesale Prices: 1-lb. Jars, 27/-; 2-lb. Jars, 49/6 (Exempt from Purchase Tax)

Retail Prices: 1-lb. Jars, 3/-; 2-lb. Jars, 5/6

For further details write to: A. Wander, Ltd., 5 and 7 Albert Hall Mansions.  
London, S.W.7



# Crookes' Halibut Oil

*— a drop instead of a spoonful —*



**NATIONAL WINTER  
ADVERTISING CAMPAIGN  
HAS NOW COMMENCED**  
— ORDER STOCKS NOW!

## TERMS OF SUPPLY

1. Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
2. The order must be accompanied by cash. No pro-forma invoices can be issued.
3. Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.
4. Bonus in kind cannot be allowed on any other Halibut Oil Products.
5. We must reserve the right to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.

CROOKES' HALIBUT LIVER OIL Standard Parcels of Drops or Capsules only					
Parcel	Contents	Net	Bonus	Sell	£ s. d.
PARCEL G	= 1 DOZEN 12 x 15 c.c. 5/- Drops Less 25%	3	1	5/-	3 0 0 15 0 2 5 0 4 6 *£2 0 6
*Amount of cash with order	" 10% PARCEL H = 3 DOZEN 36 x 5 c.c. 2/- Drops Less 25%	3	2/-		3 12 0 18 0 2 14 0 *£2 8 7
*Amount of cash with order	" 10% PARCEL J = 1 DOZEN 12 x 30 c.c. 9/- Drops Less 25%	1	9/-		5 8 0 1 7 0 4 1 0 6 1 *£3 12 11
*Amount of cash with order	" 10% PARCEL K = 6 DOZEN 72 x 5 c.c. 2/- Drops Less 25%	12	2/-		7 4 0 1 16 0 5 8 0 3 16 6 7 8 *£4 17 2
*Amount of cash with order	" 10% PARCEL L = 1 DOZEN 12 x 100 Capsules Less 25%	1	8/6		5 2 0 1 5 6 3 16 6 7 8 *£3 8 10
*Amount of cash with order	" 10% PARCEL M = 3 DOZEN 36 x 100 Capsules Less 25%	3	8/6		15 6 0 3 16 6 11 9 6 1 3 0 *£10 6 6

**THE CROOKES LABORATORIES** (British Colloids Ltd.) **PARK ROYAL, LONDON, N.W.10**

Phone: Elgar 6313 (5 lines)

Telegrams: Collosols, Harles, London

# TRUFOOD *cum* VITAMIN D



TRUFOOD INFANT FOOPS have in the past provided nutritional safety by linking the Vitamin D content with the Calcium-Phosphorus balance.

The incidence of rickets among children is probably less today than previously, due to extensive research work in this field, although investigations by the appropriate authorities show that there is still a small minority of infants who, perhaps due to environment or other reasons, do not respond satisfactorily to the intake of Vitamin D which has been previously regarded as sufficient.

In conformity therefore with the views of those authorities we are now issuing the Infant Food products

## HUMANISED TRUFOOD

*and*

## FOLLOW-ON TRUFOOD

with a Vitamin D content equivalent to 800 International Units per reconstituted pint of food.

Trufood Infant Food products also contain an appropriate amount of Vitamin A

TRUFOOD LIMITED, THE CREAMERIES, WRENBURY, Nr. NANTWICH, CHESHIRE

TFC 22/68

## FOR CLEANSING AND PRESERVING DELICATE HANDS

Introducing the dashing scarlet tin with the pink label—outstanding on your shelf, compelling in its attractiveness! WYLIE'S LADIES' HAND SOAP cleans, protects and preserves delicate hands, making them beautifully soft and smooth while gently removing grime. No grit, acid or caustic. A quality line worthy of warm recommendation.

Write us now and let us tell you about this and our other post-war lines.

NO  
COUPONS

1/3

IN THE PINK  
AND RED TIN



WYLIE'S CLEANSERS LTD., 12 DARTMOUTH STREET, LONDON, S.W.1



# Vykmin

## MULTIPLE-VITAMIN CAPSULES

- Vykmin Multiple-Vitamin Capsules are now available in two sizes retailing at 6/- (30 capsules) 9/6d. (60 capsules).
- Each capsule contains specific and guaranteed quantities of the 6 key Vitamins . . . A, B<sub>1</sub>, B<sub>2</sub>, C, D and Nicotinic Acid.
- Pharmacists can recommend Vykmin with every confidence in cases of systemic vitamin deficiency
- Full particulars, formula and terms available from Home Health Services, 132, Baker Street, London, W.1.

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(continued overleaf)

# The "MODERN" TEAT

ANTI-COLIC. RECOMMENDED BY HOSPITALS, DOCTORS AND NURSES

- Ball Top, one-hole perforation, ensuring constant and steady flow.
- Buffer shoulder protects baby's mouth.
- Tab enables teat to be slipped over bottle in an instant with minimum handling.



- General Resiliency MAKES IT NECESSARY FOR BABY TO WORK JAWS THEREBY RESEMBLING THE NATURAL NIPPLE.
- Collar ensures firm grip on bottle which CANNOT BE PULLED OFF BY BABY.
- Will stand Repeated STERILISATION.

MODERN in design and must be TRIED to be appreciated.

NEAREST TO NATURAL FEEDING

The "MODERN" Teat has been specifically designed to meet the needs of both MOTHER and BABY, and—what is of vital importance in these days—it LASTS LONGER. It is hygienic, odourless and tasteless.

OBTAINABLE OF ALL WHOLESALEERS at 42/- per gross, retail price 5½d. each, as registered with the P.A.T.A.

Owing to war-time restrictions "MODERN" Teats will be, in future, Rubber-red. This in no way detracts from the quality or durability, in fact it enhances them.

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17

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Hermetically Sealed

The "Glasepto" Throat Brush.

Hermetically Sealed

PATENT FEMORAL

701

62

204

65

211

Export Orders Receive Special Attention

Made and Stocked by—

**M. J. FECHER, LTD.**

121 High Street, SLOUGH, BUCKS.

Phone: SLOUGH 21864

COMPLETE LIST SENT FOR 1d.



# In constant demand!



What is your stock position? Is it time you ordered again? Supplies are not unlimited. By ordering well in advance you will lessen the risk of being out of stock through unavoidable delivery delays, and, at the same time, assist us to arrange an equitable distribution of available supplies. VENO, THERMOGENE, PHENSIC are firmly established, quick-selling, profitable lines. Order well ahead!

**VENO DRUG CO. LTD.**  
**CHESTER ROAD · MANCHESTER, 16**

# *An Appreciation*

FROM

ARTHUR H. COX & CO. LTD.  
AND THEIR REPRESENTATIVES

o

*We extend sincere thanks to our  
friends everywhere for their  
co-operation and patience through  
difficult days, and take this opportunity  
of conveying the*

*Season's Greetings*

*coupled with the hope that*

*1945*

*will bring a*

*Victorious New Year*

o

ARTHUR H. COX & CO. LTD.  
MANUFACTURING CHEMISTS, BRIGHTON



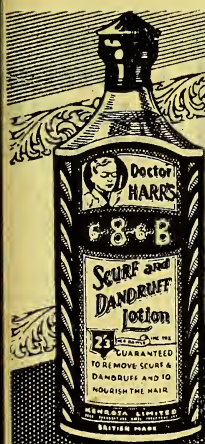


MANUFACTURERS OF  
**TABLETS**  
AND  
**PILLS**  
For the  
Pharmaceutical  
Trade

*Richard Daniel & Son*  
Derby Ltd

Established 1860

'Phone: Derby 4266-7-8. 'Grams: Dania Derby



Doctor HARR'S  
6-8-6-B

2'3 INC. TAX

*Everyman's*  
BRILLANTINE  
HAIR CREAM  
1'6 INC. TAX



*Kenrosa LTD*  
LONDON E.5.

MANUFACTURERS FOR 30 YEARS OF :- PASHANA,  
FOUGERE LOTIONS; TONFREY'S DRY SHAMPOO ETC..



## Little and not so often

★ OF COURSE *we* would like nothing better than to be able to supply all the Johnson & Johnson products your customers demand. And, while at present we must ask you to manage with what we can supply, we hope for our sake, your sake, and the sake of your customers that the day is not so far away when we shall be able once more to give you the J & J service in full measure.

**Johnson & Johnson**  
(GT BRITAIN) LIMITED

REGISTERED OFFICE  
& SALES DEPARTMENT  
SLOUGH BUCKS



Just another of the good things that will come again with Victory, but which must be sacrificed meantime.

Made by  
**JACQUESIL FABRICS LTD.**  
RED BANK MILLS  
RADCLIFFE, Lancs



## AN ATTRACTIVE CALENDAR FOR 1945

This charming painting of Miss Avril Angers (Evan Williams Poster Girl), Popular Actress and Radio Star, reproduced in full colours, makes an attractive calendar for 1945.

Size 14½" x 18½"

To comply with Government Regulations, we must make a nominal charge of ONE PENNY for this Calendar; if you would like one fill in the attached form. tip on a penny stamp and return to us.

**EVAN WILLIAMS**  
CO. LTD.

67 GORDON MANSIONS  
LONDON, W.C.1

• FILL IN NAME AND ADDRESS

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-----  
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TIP A  
**1d.**

STAMP  
HERE



# SPARKLING Harrogate Health Salts



17/- per doz.  
(Purchase tax 2/10)  
Retail selling price  
2/- (incl. tax).

32/- per doz.  
(Purchase tax 5/4)  
Retail selling price  
3/9 (incl. tax).

Supplies are restricted but orders are dealt with in rotation. You are invited to apply for a quota to the

**Sole Selling Agents:**  
**KORAY LTD., BLACKPOOL**

Manufactured by  
Harrogate Tablet Co. Ltd., Harrogate

## THE HOUSE OF KORAY

. . . bids you well  
And sends you Xmas greetings  
We hope the clanging Yuletide bell  
Brings joy and happy meetings.

We thank you for a goodly time  
Of keen co-operation  
We know you've found our KORAY  
line  
Repays collaboration.

And here's a tip for young and old  
And most of all to you  
If Xmas finds you with a cold  
Or suffering from 'flu.

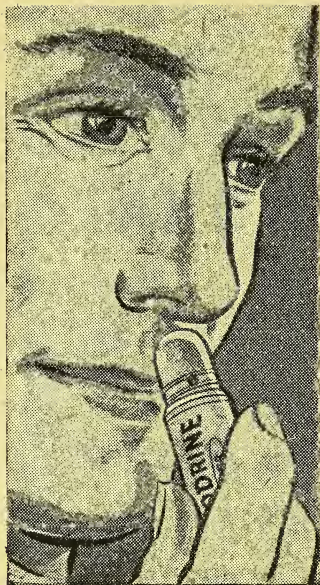
If pains should chain you to your bed  
And make you feel "quite badly"  
If pain and anguish crown your head  
Don't take your pleasures sadly.

Be gay and happy all the time  
Don't grumble groan or bicker,  
Take just one KORAY—you'll feel fine.

For . . .

## KORAY

### KILLS PAIN QUICKER



# KARSODRINE

*Customers will be really grateful*

for the immediate relief this new vasoconstrictor affords to congested and inflamed nasal mucosa. Unlike sprays or nasal drops, the volatile decongestant, Amphetamine, penetrates to the furthest recesses of the naso-pharyngeal area affording instant and prolonged relief—whilst the bland antiseptic action of the combined formula affords a sense of real comfort and relief to sufferers from Nasal Catarrh, Head Colds, Sinusitis, and similar forms of nasal congestion.

FORMULA: Amphetamine 0.330 grm.; Cineole 0.093 grm.; Ol. Citronell. 0.026 grm.; Methyl Salicyl. 0.023 grm.; Ol. Cedri 0.005 grm.; Menthol 0.049 grm.; Ol. Eucalypt. 0.089 grm.

THE KARSODRINE INHALER retails at the reasonable price of 1/6 (inc. tax) yet shows you up to 5/2½d. per doz. profit, even on small quantities, when ordered with other Griffiths Hughes' lines. Send order to—

E. GRIFFITHS HUGHES LTD., 7, Adelphi, Salford, 3, MANCHESTER

**P.A.T.A.**



The Largest Selling Asthma Tablet in the World—for the best of reasons  
International Laboratories Ltd., Charlbury, Oxford



# BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

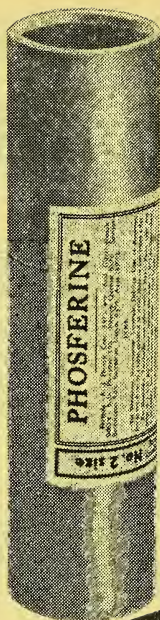
THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

				Retail Price	CHEMISTS' PRICE					
					Per unit			Per dozen		
				(inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
<b>ANTIPEOL</b>										
<b>TMENT</b>										
	4 oz. tube	..	..	6/8½	4/2½	+	8½	50/5	+	8/5
	40 gr. "	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
	20 gr. "	..	..	1/10½	1/2	+	2½	14/-	+	2/4
<b>QUID</b>	40 c.c. bottle	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
<b>PHTHALMO-ANTIPEOL</b>										
	gr. Nozzled Tube	..	..	3/4½	2/1½	+	4½	25/3	+	4/3
<b>RHINO-ANTIPEOL</b>										
	gr. Nozzled Tube	..	..	2/9½	1/9	+	3½	21/-	+	3/6
<b>INTEROFAGOS (ORAL AND INJECTABLE)</b>										
	Box of 50 ampoules	..	..	19/-	13/3½		None	159/7		None
	" 10 "	..	..	4/3	3/-		None	35/8		None
	" 5 "	..	..	2/6	1/9		None	21/-		None
<b>ETENSYL</b>										
	Box of 500 tablets	..	..	39/-	24/-	+	4/-	288/-	+	48/-
	Tube of 50 "	..	..	4/5½	2/8½	+	5½	32/4	+	5/3
<b>T. JAMES' BALM</b>										
	Box of approx. 2½ oz.	..	..	2/10	1/11	+	4	22/6	+	3/9
	" " 1 oz.	..	..	1/5	11	+	2	11/3	+	1/11
	Tube ..	..	..	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.

Terms: NETT, monthly account.

**MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25**



# PHOSFERINE

## TABLETS and LIQUID

● Phosferine is everyone's Tonic. The incalculable benefits to be derived from it are known all over the world. Continuous advertising is constantly creating new demands and today, when the benefits of Phosferine are being appreciated to a greater extent than ever, this helpful publicity is bringing you business which promotes Goodwill.

Keep up your stocks —  
and keep up your profits

PHOSFERINE (Ashton & Parsons) Ltd., Phosferine Laboratories  
King George's Avenue, Watford, Herts.

Why you should stock  
and sell **PLESOX**  
Stomach Treatment

Not just a palliative—  
PLESOX assists NATURE by restoring the  
natural digestive processes.

No Antacids,  
Narcotics or  
Toxic Alkaloids

2/3

6/8

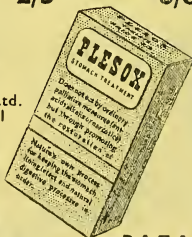
Solely Distributed for Granto  
Laboratories Ltd. by  
EMMET DISTRIBUTING Co. Ltd.  
140 Park Lane, London, W.1

Telephone: MAYfair 6756/7/8

**PLESOX**  
*Nature's Partner*

SUITABLE FOR YOUNG and OLD

Widely Advertised in the National Press



P.A.T.A.  
List

# VELOCIMUM

the speedy specific for

**CATARRH, COLDS  
ASTHMA, HAY FEVER**

*Velocium*, highly successful when first introduced, is again being advertised in the National Provincial and Periodical Press.

A proven and reliable treatment, *Velocium* is in greater demand than ever and can be recommended with every confidence—it is safe, effective and creates no habits or deleterious after effects.

Stock *Velocium* and be assured of

## SPEEDY SALES

Sold retail in boxes at  
1/5d. and 3/4½d.  
On P.A.T.A. List.

Sole Distributors:—  
**EMMET DISTRIBUTING  
CO., LTD.**  
140 Park Lane,  
London, W.1







**ATIONALLY ADVERTISED**



reliable confidence  
nic which to all your  
ou can customers  
commend Endorse  
ith full by Doctors

**YESTAMIN**

TABLETS & POWDER

THE ENGLISH GRAINS CO., LTD., BURTON-ON-TRENT

P.A.T.A.

**SAMONA**

**75% OF YOUR CUSTOMERS**

**NEED**

**SAMONA**

The well known Restorative

This wonderful Medical Restorative BRINGS IMMEDIATE RELIEF IN ALL CASES OF NERVE STRAIN, DEPRESSION, TIRED and LISTLESS APPEARANCE, MENTAL and PHYSICAL EXHAUSTION.



SAMONA LTD., Northington House, Northington Street, LONDON, W.C.1

PRICES (including purchase tax)

3/5 and 5/7½

(more than double quantity)

**SURE-SELLING STOCK!**

OVER 150 YEARS REPUTATION

**KEARSLEY'S**

THE ORIGINAL

**WIDOW WELCH'S FEMALE PILLS**

9d. BOX PROFIT by ordering 1 dozen 2/10, size. Bonus box given on every dozen (13). It pays to push this size.

**C. & G. KEARSLEY LTD.**

71 DARTMOUTH RD., LONDON, S.E.23

Established 1787 In the Reign of King George III

**PEROX CHLOR**

Keene's Laboratories Limited will be glad if chemists who were selling Perox Chlor before the war and who now have a difficulty in getting reasonable supplies will write direct to their office at 46 Elswick Rd., Newcastle-on-Tyne 4

**FRAGRANT TONIC HAIR CREAM**

MAKES THE HAIR BEHAVE

**MY LADY'S VANISHING CREAM**

For loveliness and charm—Delicately perfumed.

Setting Lotion, Solid Brilliantine, Brilliantine,

Cold Cream, Cleansing Cream, Antiseptic Balm.

LABELS FOR THESE LINES—6/- per gross.

PERFUME—COLOURING—BOTTLES—JARS.

EMULSIFIERS—Needing hot water only to give

excellent preparations as above. Send stamp for

details to—

**BRICCAS LIMITED**

4 CAVENDISH PLACE, LONDON, W.1

We manufacture... every variety of

**COMPRESSED TABLETS**

We can give deliveries on time and invite enquiries

for the Manufacturing & Wholesale Drug Trade

**The DALES ASPIRIN CO.** (PROPRIETOR H.A. TOLKIN)

SILSDEN, N. KEIGHLEY, Yorks

# PYREX

REGD. TRADE MARK.

BRAND.

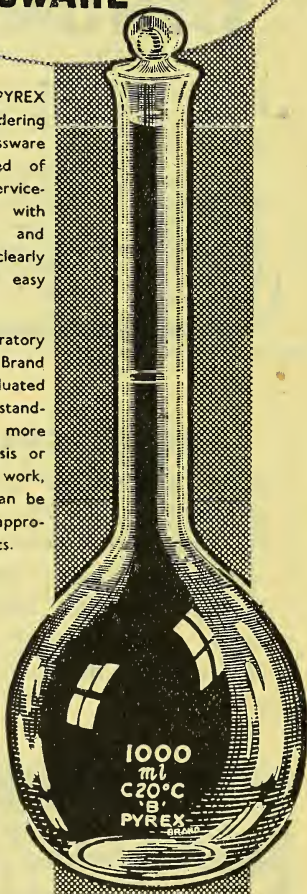
## GRADUATED GLASSWARE

By specifying "PYREX Brand" when ordering Graduated Glassware you are assured of obtaining strong serviceable glassware, with division lines and numerals etched clearly and precisely for easy reading.

For everyday laboratory work PYREX Brand Glassware is graduated to N. P. L. class B standard, but for more meticulous analysis or intricate research work, N. P. L. class A can be supplied at the appropriate extra costs.

PYREX Brand Graduated Glassware is supplied only through Laboratory Furnishers, but illustrated catalogue and two free copies of our Chemist's Notebook will be sent direct on application to us.

Ask for  
PYREX Brand  
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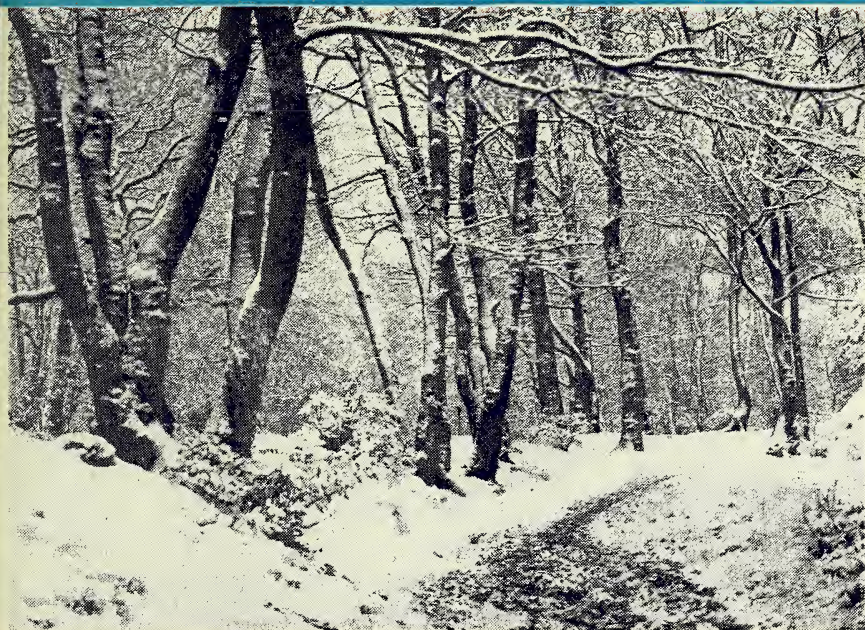
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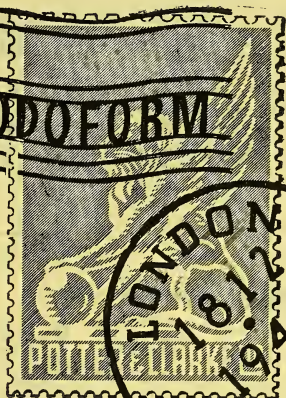




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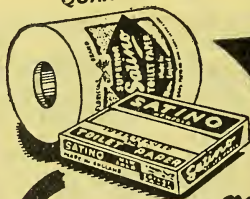
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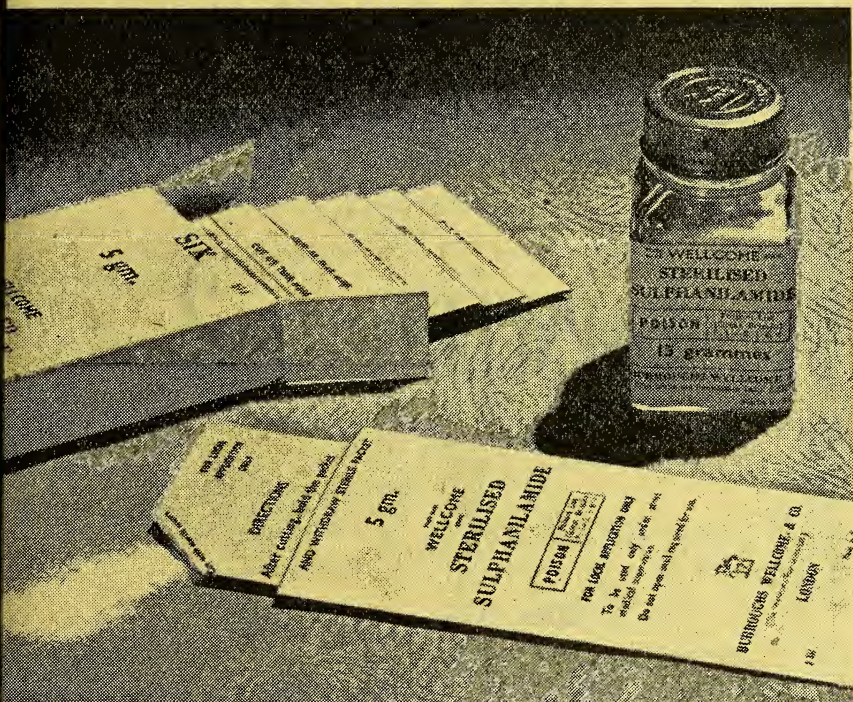
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## NEWS OF THE WEEK

**Illuminated Signs in Dublin Shops.**—From December 7 until Christmas Eve, Dublin chemists are being permitted to use illuminated signs and to display lights in their windows during business hours.

**Chocolate and Sweet Rations.**—For adults there is no change in the chocolate and sweets ration, or in the value of the personal points coupons for Ration Period No. 6, which began on December 10. Children and young people under eighteen get an extra 8 oz. of chocolate and sweets between December 10 and January 6 only.

**Control of Chlorates.**—The Minister of Supply has made the Control of Chlorates (No. 2) (Revocation) Order, 1944 (S. R. & O., 1944, No. 1354), revoking the Control of Chlorates (No. 1) Order, 1941. Under the No. 2 Order, dated December 5, licences are no longer necessary for the acquisition and disposal of chlorates. Supplies are still restricted and, under arrangements with the producers, releases for the time being will be on substantially the same basis as hitherto. Copies of the Order may be

obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price one penny.

**Statutory Committee.**—The Statutory Committee of the Pharmaceutical Society will meet at 17 Bloomsbury Square, London, W.C.1, at 2 p.m. on December 19 and 10.30 a.m. on December 20, to announce its decision in an inquiry held on October 11, and to consider information and evidence received by the Committee from which it appears that a member of the Society was convicted of unlawfully supplying cocaine; a member was convicted of larceny; a member was convicted of embezzlement; a person, now applying for the restoration of his name to the Register, was convicted of larceny; and a person, now applying for the restoration of his name to the Register, was convicted of fraudulent conversion and conspiracy.

**Thames Valley Association.**—A meeting of the Thames Valley District Pharmaceutical Association was held on November 23, when Mr. A. L. Bacharach, B.Sc., gave

an address on "Penicillin." Lantern slides were then shown to illustrate the action of penicillin on certain micro-organisms. Methods of manufacture were described and illustrated.

**Doctor Struck Off.**—The General Medical Council has directed that the name of Alexander Zelmanovits, Maida Vale, London, shall be erased from the Medical Register.

**Fire at Works.**—Plant and stock of J. Goodman (Chemicals), Ltd., Devonshire Works, Chiswick, London, W., suffered extensive damage as the result of a fire recently in overhead premises.

**Chiropody Practitioners.**—At the annual meeting of Chiropody Practitioners (N.I.Ch.), Ltd. (one of the five registered bodies on the Chiropody Group Council), which was held on November 29, Mr. E. H. Gibson, M.P.S., who was president of the Society for 1943-44, was re-elected to the council of management, and Mr. F. W. Robinson, M.P.S., was also elected to council membership.

**Tsahai Memorial.**—A further appeal has been sent out, over the signature of Lord Horder (treasurer), for the Princess Tsahai Memorial Hospital Fund. The amount collected in this country now exceeds £20,000, and the total from all sources is over £43,000. Donations should be sent to the treasurer, c/o H. Reynolds & Co., 1 Bloomsbury Square, High Holborn, London, W.C.1.

**Medway Branch of the Pharmaceutical Society.**—A meeting of the Medway Branch of the Pharmaceutical Society was held in Chatham on November 29, when Mr. W. S. Howells (a member of the Society's Council and immediate past-president) gave an address on "The White Paper and its Effects on Pharmacy." Questions after the address showed that a keen interest was being taken in the subject, and that further discussions would be advisable.

**Ulster Associates' Section.**—The monthly meeting of the Associates' Section of the Ulster Chemists' Association on November 28 was one of the shortest on record. Mr. H. Boyd (chairman) presided. The secretary read letters from Mr. H. W. Gamble and Mr. W. J. McCutcheon acknowledging messages of sympathy. It was decided to prepare and send out circular letters to prospective members, and there was a brief discussion on the recent wages award to English employees; the scale was not regarded as impressive.

### Northern Ireland Examination Results.

The following were successful in the qualifying examination of the Pharmaceutical Society of Northern Ireland, held recently in Belfast: George L. Andrews; William Bolon; Dorothea M. Cooke; Gerard Curr; Nora P. Faulkner; N. J. Harper; Catherine B. Headon; S. Isaacson; Sarah D. Johnston; Arthur Mawhinney; A. N. Morris; John D. Murphy; Patrick K. McBride; John McCourbey; Robert McCullagh; Rosaleen McEleavy; Dermot McErlean; Margaret McKenzie; Edith Plenderleith; Edward B. Williamson.

**Census of Shopkeepers.**—The Board of Trade is about to make a census of retail shopkeepers, according to an announcement made to the Sales Managers' Association at Leicester on December 11. "There has never been a census of distribution in this country," said Mr. G. W. Lucas, who made the announcement, "although I am informed official quarters that at long last the Board of Trade is going to make a start upon this gigantic task. The cost of distribution rose steadily in the pre-war years and the efficiency of distribution gradually decreased."

**Brighton Association Officers.**—At the annual meeting of the Brighton and Hove Association of Pharmacy, held on December 5, the following officers were appointed: *President*, Mr. Donald W. Hudson (unanimously re-elected); *Vice-presidents*, Mr. Cecil V. Brumwell and Miss Frieda Kiedden; *Librarian*, Mr. H. B. Mack; *Treasurer* and *National Pharmaceutical Union Branch Secretary*, Mr. T. R. Morgan; *Committee*, the Misses Burk and Lacroix, Messrs. F. A. Thomas, S. George, J. A. Buckley, R. A. Shimm, W. L. Chatfield, G. B. Padwick, and A. Walmsley; *Secretary* and *P.A.T.A. Branch Secretary*, Mr. Arch Wilson.

**Insecticidal Paint.**—At a meeting of the Oil and Colour Chemists' Association at Manchester on November 29, Mr. G. Campbell read a paper prepared by himself and Dr. T. F. West on "Some Possible Paint Applications of D.D.T." The first part of the paper dealt with the background of research out of which D.D.T. had emerged. The authors then described its successful use, in the form of a spray, in the campaign against flies; walls sprayed with it killed these pests even up to twelve months afterwards. This persistency raises the question of incorporating D.D.T. in paints and other durable surface coatings. The compound was said to have given good



Its when incorporated with dry disperser and oil-bound water paint.

**Irish Drug Association.**—Mr. Lyall G. (president) was in the chair at a committee meeting of the Irish Drug Association held on November 27. The president proposed a vote of condolence to the relatives of the late Mr. A. R. O'Connell, Cork, and of Mr. P. J. Fielding, Dublin. This was seconded by Mr. T. R. O'Connell and passed in silence, all members standing. The president spoke of the good service rendered to the I.D.A. by the members, and mentioned that each had been connected with the Association for over twenty years. It was decided to hold a meeting of provincial delegates at 10.30 a.m. on January 9, 1945. It was reported at the meeting that the sales of two varieties of a proprietary cough preparation are still being confined to pharmaceutical chemists and registered druggists. Additions to the approved list of manufacturers include Ascabex (D. Dolan). In connexion with reductions of insulin prices, rebates are not being allowed, as wholesale prices have been reduced since September 1. In answer to many queries, the committee points out that the wholesale prices of cod liver oil, upon which current prices are based, have operated since January 31.

# **Women Pharmacists Discuss Nationalisation.**

—Mrs. J. K. Irvine, M.B.E., a member of the Council of the Pharmaceutical Society, addressed a meeting of the National Association of Women Pharmacists in London on December 6, her subject being "The Nationalisation of Pharmacy." Mrs. Irvine defined nationalisation as denoting the taking over and management by the State of anything of public utility, and quoted Mr. Herbert Morrison's words, "the object of nationalisation is to expand, not to cut down, production and to improve quality and to lower prices." The part that pharmacy would be expected to play in a National Health Service had not yet been mentioned in either the White Paper on the health service or in the White Paper on social security, but it would have to take an important place. Pharmacy had a Joint Committee which had outlined an administrative structure for pharmacy in the new service. Could pharmacy provide the most efficient service by an extension of the present N.H.I. scheme or by combining this system with a chain of health centres? There was no doubt that pharmacy could be regarded as coming into the public utility class, hence it was a service

to which nationalisation could be applied to the benefit of the community. The Minister of Health, when addressing medical students, had said that the doctor would be no more controlled in the way he treated his patients in a health centre than anywhere else. Mrs. Irvine felt that there was no reason why pharmacists in a health centre should not have the same freedom.

**Mr. Mallinson at Enfield.**—There was a well-attended meeting of the Enfield Chemists' Association on December 4 to discuss the Government's White Paper on health. Mr. A. R. Cross presided. Points of interest were raised by MR. ATKINSON and other members, particular reference being made to the possible formation of a new class of pharmacists practising real pharmacy under the new scheme; remuneration linked with the recent wage agreements; probable participation of chain stores in the scheme; and possible payment for total services or dispensing only under the National Health proposals. MR. MALLINSON stressed that it would be a mistake if pharmacists regarded the White Paper health proposals as a new era approaching in pharmacy, but that they must realise the whole future was at stake. They had to fight to establish the right to dispensing, and get the contract in the new National Health scheme. A reasonable remuneration must be obtained, based on the value of the chemists' services to the community, and the standard of those services lay in the hands of pharmacists themselves. If the recent wage agreements were to be considered, it should not be in relationship with war-time conditions, but in the light of past experience. Of paramount importance was the fact that wages were pegged for the post-war period. Chain stores could not be prevented from participating in the new National Health scheme unless a time clause operated. Taking all things into consideration, however, the outlook for pharmacy today was better than it had ever been before. A full-time proprietor would receive remuneration from the health authorities at rates calculated by Government experts, after a comprehensive inquiry and taking all aspects of a chemist's business into account. Pharmacists had to face the reality that the Government knew, from the facts in their possession, what rates to offer for participation in the new scheme. On the other hand, the N.P.U. would negotiate for a scale of payment based on increased dispensing. MR. NIGHTINGALE moved a vote of appreciation to Mr. Mallinson.

## AMERICAN NOTES

**Tetanus Defeated in U.S. Army.**—The United States War Department announced recently that tetanus had been virtually eliminated in the American armed forces as a result of compulsory immunisation of all officers and men.

**"Tropical" Chocolate.**—About 198 million bars of tropical chocolate are being purchased by the quartermaster's department of the U.S. Army for resale overseas in tropical climates. The chocolate has proved satisfactory in laboratory tests up to 120° F., the melting-point of ordinary chocolate being 85° F.

**Blood Flown Daily to Paris.**—The United States War Department announced recently that the United States Army Air Force Air Transport Command was flying 1½ tons (3,500 lb.) of whole blood daily from the United States to Paris. After being unloaded from the transport aircraft, the blood packages are rushed to the front by air or by lorry.

**Insect-repellent Uniform.**—A new army uniform that repels insects has been described by United States Army officers. It was stated that, in a test in which a number of men sat for an hour and a half in the worst mosquito-infested spot that could be found, men wearing the old-type uniform averaged nineteen bites per man, whilst those wearing the new uniform averaged less than one bite.

**Steenbock Patent Upheld.**—The Federal Circuit Court of Appeals recently withdrew an earlier opinion which had invalidated the Steenbock patent (held by the Wisconsin Alumni Research Foundation). The earlier decision was that a process using sunlight could not be patented, since solar energy was available to all mankind, and that, while the Steenbock patent was an invaluable discovery, it was not an invention.

**Government Vitamin Purchases.**—During the first six months of 1944 the United States Government purchased, for Lease-Lend purposes, 2,331,968 oz. ascorbic acid powder; 39,038,013 M units fish liver oil (vitamin A); 7,000 kilos ketagulonic acid; 1,520,236,000 multi-vitamin tablets; 37,604 kilos nicotinamide; 42,106 lb. nicotinic acid; 140,000 gm. riboflavin tablets; 80,900 lb. sorbose; and 5,080 kilos thiamine hydrochloride.

**Spray Jets for Cosmetics.**—A method of presenting cosmetics suggested in a recent

issue of "Drug and Cosmetic Industry," involves the use of a small steel cylinder similar to that used for aerating water in a well-known product, and encased in a container of plastic material. The compressed gas would create the necessary pressure to spread deodorants, sun lotions, skin fresheners, perfumes, etc. direct on to the skin.

**Suggested U.S.P. Changes.**—Opinions are being sought by the United States Pharmacopoeia Revision Committee on proposals to give the English title first place among official pharmacopœial titles, and relegate the Latin title to second place or drop it altogether; to rearrange the book by placing active therapeutic agents in a first section, followed by sections of surgical aids, diagnostic agents, and substances classified as "pharmaceutical necessities" and to classify medicinal agents according to therapeutic use.

**Clothes-washing in Sea Water.**—A new sea-water laundry process, making use of various chemicals at controlled temperatures, was given a practical test recently on board a United States hospital ship. The process was found to save approximately 4,480 gall. of fresh water daily, fresh water being used only in the rinsing operation. On shore, results were no less far-reaching. Where formerly shiploads of dirty linen were processed by a hospital laundry at the port, the shore laundry was relieved of overload; increased efficiency resulted. The new sea-water laundry process is to be installed on hospital and troop ships and on island bases where fresh drinking water is scarce.

**United States National Research Corporation.**—The October issue of "Harper's Magazine" describes the work of the National Research Corporation. Starting "from scratch" in Boston in 1940, the Corporation has now become one of the most successful of the war-born industries in the United States. The novelty of the National Research Corporation, the writer declares, lies in the fact that the core of the company is ideas rather than products. At present the Corporation is confining itself strictly to war work, but almost everything that national research has done especially in the fields of dehydrating foods and drugs and in the reduction of light metals, is considered to have peace-time possibilities.



## TOPICAL REFLECTIONS

### A Continuing Detriment

The remarks of Dr. N. Sapeika at a meeting of the Cape Medico-Legal Society (p. 614), though primarily applicable to conditions in South Africa, convey a warning to pharmacists in other countries, including our own. Specially noteworthy is his observation that "the professional training and privileges of pharmacists in compounding and dispensing had to a large extent been reduced to a matter of wrapping up some highly advertised preparation. . . ." In Great Britain this trouble has been familiar for several years. In the presidential address of Dr. G. Claridge Druce at the British Pharmaceutical Conference of 1901—one of the best of a long series—there is a passage much to the point. Proprietary medicines, said Dr. Druce, "were in former days sold by stationers and newspaper agents . . . ; but, after all, these were open enemies; the greatest foes are those of one's own household, such as the proprietary article with which our physicians are profusely supplied, and which make dispensing, which at one time was both pleasant and profitable, neither agreeable nor remunerative . . . not seldom the prescription necessitated some call upon the intellectual faculty and one's chemical or pharmaceutical training proved of service; now, when two pills No. 4 (Brown & Jones) are ordered, with someone else's mist. bismuthi and another person's liniment, a natural feeling of injury is experienced by the pharmacist, who . . . feels that the physician is tacitly telling him he has little confidence in his knowledge." This position has not become less detrimental during the intervening forty-three years. If it were to be accepted that pharmacists qualify for the purpose of handing out ready-made medicaments, discussions on educational changes would gradually become unimportant.

### Baume de Vie

The balsams in your "Quiz" on p. 578 are both of considerable interest. Here I can notice only the first of them, now represented by compound decoction of aloes. The name "Baume de Vie," dating from about the middle of the eighteenth century, is attributed to a Paris apothecary named Le Lievre (with an alternative spelling); the formula, allowing for slight variations in the proportions of the ingredients, is older. It has been traced to 1715, in which

year a certain David de Spina announced the sale of an Elixir Pestientiale de Spina. The ingredients were aloes, rhubarb, Venice treacle, saffron, myrrh, troches of agaric, zedoary, gentian, white sugar and spirit of wine. (At this distance of time, the proportions may be omitted.) Whether de Spina was the originator or not, this type of balsam or elixir became popular in Western Europe under such names as Swedish Elixir and Elixir of Long Life. It has been suggested that its success was largely due to the benefit derivable from small, repeated doses of an aromatic laxative in contrast to the unsatisfactory action of massive, cathartic doses of the same or a similar galenical. A manuscript recipe of this type sent to you some years ago by a correspondent (*C. & D.*, 1929. I. 175) was reputed to have been treasured by a family noted for longevity; the grandfather of the Swedish physician who had owned the transcript lived to the age of 130, the father to that of 112, and the physician himself died prematurely when only 102, through a fall from his horse. Possibly the preparation has not always thus lived up to its name.

### Pharmacy in the U.S.S.R.

The second of your series of articles on pharmacy in the country that for short we call Russia (p. 608) fully maintains the interest aroused by the first. It is clear that we have much to learn from pharmaceutical customs in Moscow, and that some of them might be transplanted, with suitable modifications, to this country. The impressive figures given are backed by facts disclosing many activities. Without attempting to mention all, or nearly all, of these, I may instance the pharmacy bulletin; the reports from the Pharmacy Board to meetings of doctors; and the information sent daily from pharmacies to certain medical institutions. Equally noteworthy are the small subsidiary factories belonging to the Board, and what may be called its shopfitting department. The arrangement by which dispensers can work while seated is at first sight surprising, and one would like to ascertain its effect on output. Probably some types of operation are better suited to a sedentary position than others. Of interest, too, would be statistics of the prescriptions dispensed by individual pharmacists in an average day. This matter, it will be remembered, came before a recent conference on the proposed National Health Service.

**Xrayser**

## TRADE NOTES

**Christmas Greetings.**—Seasonal greetings are included in announcements this week by ARTHUR H. COX & CO., LTD., manufacturing chemists, Brighton; and KORAY, LTD., Blackpool.

**New Pack.**—Tintex Dyes, London, W.1, announce that Tintex will shortly be on sale in new and attractive coloured envelopes designed to add colour-appeal. It is anticipated that the new pack will increase the demand for this already popular British home dye.

**Calendar for 1945.**—Evan Williams Co., Ltd., 67 Gordon Mansions, London, W.C.1, invite chemists to apply (sending one penny stamp, to comply with the paper regulations) for an attractive calendar for 1945, size  $14\frac{1}{2}$  in.  $\times$   $18\frac{1}{2}$  in. Details are given in an illustrated announcement in this issue.

**Vitamin D in Infant Foods.**—Trufood, Ltd., The Creameries, Wrenbury, nr. Nantwich, Cheshire, are now issuing both Humanised and Follow-on Trufood with a vitamin-D content equivalent to 800 international units per reconstituted pint of food. Both products contain also an appropriate amount of vitamin A.

**Ovarian Hormone Suspension.**—Parke, Davis & Co., 50 Beak Street, London, W.1, have introduced Theelin keto-hydroxy- $\alpha$ -estratriene, the ovarian hormone first isolated from pregnancy urine by Doisy. The preparation is a suspension of the hormone in normal saline solution, each mil containing 2 mgm. (20,000 international units). Theelin is supplied in boxes of six 1-c.c. ampoules.

**Indian Famine Relief.**—Biddle, Sawyer & Co., Ltd., Empire House, St. Martin's-le-Grand, London, E.C.1, devote space in their announcement in this week's issue to point out that the Directorate of Medical Supplies has promised export permits for any quantity of Totatquina dedicated to Indian famine relief. Firms willing to help by supplying the compound are asked to communicate with Alderman Dr. C. L. Katial, India Relief Committee, 165 Strand, London, W.C.2.

**Christmas Holiday Closings.**—The following manufacturers and wholesalers have announced that they will be closed on December 23, 24, 25 and 26: ALLEN & HANBURY, LTD., London, E.2 (except departments on work of urgent national importance); BAYER PRODUCTS, LTD. (urgent supplies from John Bell & Croyden,

50 Wigmore Street, London, W.1, or W. Woolby Brooke, 38 Gloucester Road, London, S.W.7); LOFTHOUSE & SALTMEYER LTD., Hull (and on December 28 and 29 for stocktaking); R. J. REUTER CO., LTD. Bedford Avenue, Slough, Bucks (on account of stocktaking, no orders will be executed on December 28, 29 and 30); WRIGHT LAYMAN & UMNEY, LTD. (also closed for business December 27-30 inclusive, except for urgent post orders).

### Business Changes

MR. C. HEATON, M.P.S., has taken over premises formerly conducted as a drug store at Warley Road, Blackpool.

MR. H. FRISCHMANN is removing on January 1 to 62-63 Fenchurch Street, London, E.C.3. Telephone: Royal 1878.

THE telephone number of Chemia Products, Ltd., 27-28 Finsbury Square, London, E.C.2, has been changed to Monarch 6918-19.

### COMING EVENTS

#### Saturday, December 16

BRITISH ASSOCIATION OF CHEMISTS, Royal Station Hotel, York, at 2.30 p.m. Twenty-seventh annual meeting.

#### Sunday, December 17

MANCHESTER PHARMACEUTICAL ASSOCIATION, Ramble to Marsden, Isle of Skye and Greenfield. Meet Exchange Station, 10.30 a.m. Book Marsden return. Inquiries to W. Edwards, Old Trafford.

#### Tuesday, December 19

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2., at 1.45 p.m. Dr. I. E. Coop and Mr. A. L. Poole on "Scientific Collaboration between the United Kingdom and New Zealand in War and Peace."

#### Wednesday, December 20

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Cleveland Scientific Institute, Middlesbrough, at 6.30 p.m. Branch Representatives' report on recent conference. Discussion on the branch questionnaire on proposed National Health Service.

**CLOSED ON SATURDAYS.**—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., 17 Argyle Street, Bath, Somerset.



## COMPANY NEWS

**ULSTER PHARMACEUTICALS, LTD. (P.C.)**.—Capital £500. Chemists, druggists, etc. Robert John Wright, Clover Hill House, Arrickfergus, director. R.O. not stated.

**J. L. GALLOWAY (CHEMIST), LTD. (P.C.)**.—Registered in Edinburgh. Capital £5,000. To acquire the business of James Leishman Galloway, chemist, Cumnock. Directors to be appointed.

**YUGOSYN (CRUDE DRUGS), LTD. (P.C.)**.—Capital £100. Dealers in drugs, medicinal plants, herbs, etc. Henry Spence and Mel W. Purvis, directors. R.O.: 4 Broad Street Place, London, E.C.2.

**B. J. & F. ADDERLEY, LTD. (P.C.)**.—Capital £1,000. Chemists, druggists, etc. Bert J. Adderley, M.P.S., and Florence M. Adderley, directors. R.O.: 50 London Road, Romford, Essex.

**FURSE CHEMICAL PRODUCTS, LTD. (P.C.)**.—Capital £100. Manufacturers of and dealers in cosmetics, toilet goods, chemicals, etc. Directors to be appointed. Solicitors: Bone & Stone, London, E.C.2.

**MENTONA TRADING CO., LTD. (P.C.)**.—Capital £500. Manufacturers of and dealers in cosmetics, drugs, fancy goods, etc. Directors not named. R.O.: 31 Hammermith Broadway, London, W.6.

**LEOPARD TRADING CO., LTD. (P.C.)**.—Capital £1,000. Wholesale, retail and analytical chemists, etc. Leonard R. F. and William R. F. Payne, directors. R.O.: Arcade Chambers, Catford Broadway, London, S.E.6.

**ALEXANDER RUSH, LTD. (P.C.)**.—Capital £1,000. Manufacturers of and dealers in proprietary medicines, drugs, toilet requisites, etc. Ernest A. and Sarah Rush, directors. R.O.: Progress Works, Kempshaw Brook, Stockport.

**PROLENE DE-GREASING PRODUCTS, LTD. (P.C.)**.—Capital, £500. Manufacturers, wholesalers, and retailers of Prolene and other de-greasing solvents, etc. Directors to be appointed. Solicitors: Wilfred E. Rosland & Co., Dewsbury, Yorks.

**GEORGE'S PILLS, LTD. (P.C.)**.—Capital £3,000. To acquire the business of manufacturers of pills, ointments, liniments, etc., carried on at Bryncynon, Hirwaun, South Wales, as "George's Pills." John G. George, Maelgwyn G. George, Katherine John, and William D. John, directors. R.O.: 42 High Street, Hirwaun, South Wales.

**SPLENDOR (EXPORT ENGLAND), LTD. (P.C.)**.—Capital £100. Manufacturers of and dealers in sanitary, surgical, chemical and scientific instruments and materials, etc. Directors to be appointed. R.O.: Bank Chambers, Beastmarket Hill, Nottingham.

**GENATOSAN, LTD.**—Trading profit for the year ended June 30 amounted to £131,372, against £113,271 in the previous year. Charges included depreciation, £26,260 (£25,262); pensions, £5,385 (£7,744); taxation, £62,029 (£51,528). A final dividend of 15 per cent. has been declared on the ordinary shares, making 25 per cent. (same) for the year.

**LENNON, LTD.**—After providing for all Union of South Africa and Southern Rhodesia taxation, the undivided profit of the company amounts to £122,533. A dividend of 12 per cent. will be paid on the ordinary shares. £25,000 will be added to contingency reserve, and £15,000 will be distributed among members of the company's staff provident fund. Balance carried forward, £34,160. Features of balance sheet are: Reserves, £677,150; fixed assets, £569,612; stock, £467,810; sundry debtors, £235,442; cash, £217,478; fixed deposits with bankers and building societies, £51,332.

**DELETED FROM REGISTER.**—Notice is given in the "London Gazette," November 24, that Chase Drug Stores, Ltd., has been struck off the Register of Companies.

**VOLUNTARY LIQUIDATION.**—A general meeting of Thames Chemicals, Ltd., will be held at 9 Arundel Street, London, W.C.2, at 11 a.m. on January 5, to show how the winding up of the company has been conducted.

### C. & D. QUIZ, NO. 43

1. What is *saccharum Saturni*?
2. For what is *pulv. aromaticus* a synonym?
3. What are *Rufus' pills*?
4. What Codex preparation has Lund's oil as a synonym?
5. Who introduced spectrum analyses to chemistry?
6. What is Curschmann's solution?
7. What is *tilleul*?
8. What chemical is known as Preston's salt?
9. What is a psychoplegic?
10. Which famous scientist was given permission to travel through France while England and France were at war?

(Answers on p. 649)

## BIRTHS

**BARBER.**—On December 7, Mabel, the wife of W. E. Barber, M.P.S., 162 Hillview Drive, Clarkston, Glasgow (a representative of Thompson & Capper Wholesale, Ltd., Liverpool), of a son.

**GANT.**—At Chorlton Nursing Home, on December 1, Evelyn, the wife of Stanley H. Gant, M.P.S., 14 Chelsfield Grove, Manchester, 21, of a son.

## DEATHS

**ARKWRIGHT.**—On November 22, Sir Joseph Arthur Arkwright, an honorary member of the staff of the Lister Institute for Preventive Medicine, aged eighty.

**BARNETT.**—Following an operation, recently, Mr. Frederick William Barnett, M.P.S., 53 High Street, Shaftesbury, Dorset. Mr. Barnett qualified in 1910.

**BLAIR.**—In Glasgow, recently, Professor Duncan M. Blair (Regius Professor of Anatomy, University of Glasgow) aged forty-eight.

**DE BAVAY.**—In Melbourne, Australia, on November 16, Mr. Auguste J. F. de Bavay, aged eighty-eight. During the war of 1914-18 Mr. de Bavay developed a process for the manufacture of acetone from waste molasses.

**ELLIS.**—Recently, Mrs. D. Ellis, wife of Mr. David Ellis, M.P.S., 4 Devonshire Road, Sherwood, Nottingham.

**JACKSON.**—Recently, Mr. Albert Jackson, Gosforth, Cumberland, father of Mr. Kenneth Jasper Jackson, M.P.S., Cranford, Gosforth, aged seventy-five. In his early days Mr. Albert Jackson combined a grocery business with part-time farming. With the advent of motor transport, the farm buildings were turned into a drapery store and later a pharmacy department was added to the business.

**JOHNSTON.**—At Plean, recently, Mr. Robert S. Johnston, Scottish representative of Cooper, McDougall & Robertson (Scotland), Ltd., aged sixty-two.

**MORGAN.**—During October, Mr. John King Morgan, M.P.S., 37 St. Paul's Avenue, Barry. Mr. Morgan qualified in 1901.

**MORRISON.**—At Stellenbosch, on October 24, Mr. John Todd Morrison, D.Sc., professor emeritus of chemistry and physiology, University of Stellenbosch, South Africa.

**PIRIE.**—On November 29, Mr. John Pirie, M.P.S., 6 The Slade, Plumstead, London, S.E.18, aged forty-four.

**SLEGGS.**—On November 30, Mr. Geor Milner Sleggs, M.P.S., Kent's Bank Road, Grange-over-Sands. Mr. Sleggs qualified 1890.

## WILLS

**MR. FREDERICK ADAM, M.P.S.,** Wheellys Road, Edgbaston, Birmingham, left £4,882, with net personalty £3,859.

**MR. HAROLD BARTON, M.P.S.,** 3, Liverpool Road, Birkdale, Southport, Lancs, left £13,496, with net personalty £9,122.

**MRS. MAUD HINDSON, Milford, Surrey** left £1,361, with net personalty £406. She left £30 to the Pharmaceutical Society Benevolent Fund.

**MR. HAROLD PERCY SMITH, 12 Highfield Terrace, Halifax, Yorks,** for many years director of Ayrton & Co., Ltd., chemical manufacturers, Halifax, left £2,086, with net personalty £2,008.

**MR. MARTIN JAMES TOMKINS, chemist sundriesman, 32 Norton Gardens, Wallington, Surrey,** a director of James Tomkin Ltd., London, E.C.1, left £5,148, with net personalty £3,580.

**MR. THOMAS JOHN HILL, 4 Llythri Avenue, Uplands, Swansea, Glam.,** retired chemical engineer, formerly for many years with the Mond Nickel Co., Clydach, left £5,133, with net personalty £3,984.

**MR. JOHN BASSETT MUMFORD, 8 Lydford Road, London, N.W.2,** a director of Newland Bros. & Mumford, manufacturing chemists, left £8,440, with net personalty £8,371.

**MR. FRANCIS JAMES MORTIMER, C.B.E. F.R.S.A., Hon. F.R.P.S., 8 Queen's Garden, Paddington, London, W.2** (editor of the "Amateur Photographer," and a past president of the Royal Photographic Society) left £2,513, with net personalty £1,240.

**MR. FRANCIS HAROLD CASS TALLACK, Lusson House, Yester Road, Chislehurst, Kent,** a director of Phosferine (Ashtons & Parson), Ltd., Phosferine Products Ltd., and other companies, left £27,674, with net personalty £17,243.

**MR. LEICESTER MORGAN REED, J.P.** The Warren, Handcross, Sussex (chairman William Reed, Ltd., publishers of the "Tobacconist and Confectioner," "Grocer," "Wine and Spirit Trade Review," "Brewer Journal" and other publications, and Master of the Vintners' Company in 1929) left £294,187, with net personalty £273,296.



## PERSONALITIES

MR. JOHN WILMOT, M.P., has been appointed Joint Parliamentary Secretary to the Ministry of Supply.

MR. A. E. JOHNSTON, Ph.C. (managing director of S. Suffern & Co., Ltd., 302-04 Shankill Road, Belfast), was elected president of the Ulster Chemists' Association at the annual meeting held in Belfast on December 5. Mr. Johnston served his apprenticeship with Mr. J. Kilpatrick, Ph.C. (trading at R. A. Austin), Londonderry, and Mr. W. S. Taylor, Enniskillen. He qualified



as a pharmaceutical chemist in 1930. For 15 years he acted as manager for Messrs. Fern before taking over the business in 1932.

MR. J. K. N. JONES, B.Sc., Ph.D., has been appointed lecturer in chemistry at Manchester University.

MR. TOM FRASER, M.P., has been appointed Parliamentary Private Secretary to the President of the Board of Trade.

MR. E. W. SKYRME, B.Pharm., Ph.C., Wellington Place, Hastings, has been appointed a member of the board of examiners for England and Wales in the subjects of pharmaceuticals and forensic pharmacy.

TEMPORARY LIEUTENANT FREDERICK JOHN ROBB STOREY, R.N.V.R., elder son of Mr. Fred Storey, Ph.C., Cultra, co. Down, has been mentioned in dispatches for good services to survivors from a merchant vessel sunk by enemy action.

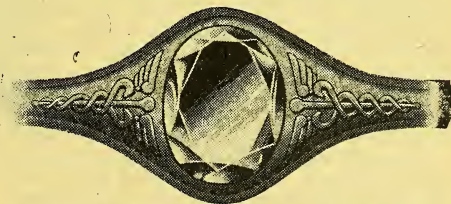
MR. R. H. HENRIKSEN, chief pharmacist of the River Hospitals, Dartford (L.C.C. Public Health Department), who has been elected chairman of the newly-formed London Branch of the Guild of Public Pharmacists, was already president of the Guild from May of this year. From 1934-39 he was honorary editor of the "Public Pharmacist," and he has been a member of the Guild's Council since 1935. Mr. Henriksen qualified from the Liverpool School of Pharmacy in 1928, and passed the Association examination of the Royal Institute

of Chemistry in 1934. He is a Fellow of the Chemical Society and a member of the Society of Chemical Industry.

MR. H. E. MAKEPEACE, who recently retired from the position of overseas manager of Burroughs Wellcome & Co., after an association with the company lasting for over forty-three years, was the guest of honour at a luncheon at the Savoy Hotel, London, on December 6, given by the chairman of the Anglo-Iranian Pharmaceutical Co., Ltd. (Mr. C. L. Saul, Boots Pure Drug Co., Ltd.), to mark the retirement of Mr. Makepeace from the board of the latter company, on which he represented Burroughs Wellcome & Co. Mr. Makepeace has had a long experience of the export trade, and was for four years a member of the executive committee of the Pharmaceutical Export Group.

MR. JOHN HENRY HART, Ph.C., Morecombe, Duxmere, Ross, and Mrs. Hart celebrated their golden wedding on December 5. They were married at Maindee Church, Newport, Mon., and have one son, Mr. John Frederic Hart, Ph.C. Mr. J. H. Hart was born at Strangford, Sellack. After his marriage he opened in business in Clevedon, Somerset, and after a period of some six years there purchased a larger business in Glasgow. In 1913 he returned south to Ross-on-Wye, where he took over the chemist business at the "Man o' Ross" House. Mr. Hart was elected to the Ross urban council over twenty-two years ago and has retained his seat. A keen horticulturist, he was largely responsible for the layout of the local parks and gardens. He is also a Justice of Peace for the county.

## PHARMACISTS' RING



A suggestion recently put forward by the Professor of Pharmacy at the University of Oklahoma, U.S.A., for a pharmacist's ring incorporating the "pharmacy green gem stone, the peridot," was adopted by pharmacist Carl D. Lovotti, Lovotti's Professional Prescription Pharmacists, San Francisco, who had a ring made of which the essential features, the stone and the serpent of Aesculapius, are illustrated above.

# A HISTORY OF INHALATION ANÆSTHETICS

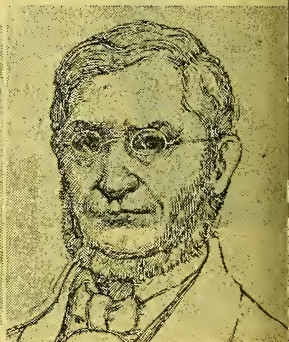
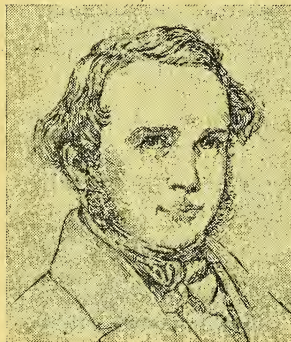
by J. Ross-Mansell, B.Sc., M.P.S.

**P**ROBABLY the first recorded use of inhalation anæsthesia is by Arabian physicians at Cordova in A.D. 1150, when a combination of aconite, datura and henbane was employed. This mixture, which was called a "soporific sponge," was revived in the thirteenth century, but its constituents were altered to opium, henbane,

prevention of pain. The patient operated on then had to bear the cutting and burning of his body as best as he could!

## First Use of Ether

In 1847 the European world was startled by a report from America that, by the continuous inhalation of sulphuric ether, a



Left: Horace Wells, American dentist, used nitrous oxide for anæsthesia in 1844. Centre: Valerius Cordus, discovered ether in 1515. Right: Charles Thomas Jackson (1805-1880), claimed to be the original discoverer of anæsthesia. (These and other illustrations are reproduced by courtesy of the Wellcome Historical Medical Museum.)

mulberry juice, lettuce, hemlock, mandragora and ivy. It was inhaled from a sponge by the patient, who was subsequently revived by applications of fennel juice to the nostrils. Paracelsus, who died in A.D. 1541, has a passage in his "Avreoli Ph.: Theophrasti Paracelsi Op." (vol. 2, p. 197), in which he recommends the addition of sulphuric ether instead of opium.

## Early Experiments

Surgeons had endeavoured for many years to find a way of rendering operations painless and, by removing the pain, obviating the shock to the system which so often interferes with the success of a severe operation. It was proved that a half-conscious patient bore any surgical operation involving the sensory nerves less well than one who was quite conscious, and that he offered greater resistance to the manipulations of the surgeon. Early in the nineteenth century, therefore, draughts of the *mandragora vernalis* and poppy juice were no longer administered in the operating theatre. Nerve compression, the so-called magnetic sleep, and Braid's hypnotic state also fell into disuse, though all had been formerly recommended and tried for the

harmless sleep could be produced which quickly passed off and during which any surgical operation could be performed without causing the patient any pain. Valerius Cordus first discovered ether in 1515 by heating alcohol and oil of vitriol together, adding the alcohol in a continuous stream. The product, which floated on the top of the distillate, was called by him "oleum vitrioli dulce." This discovery, however, attracted no attention. Two hundred years later, in 1729, Froben, a German pharmacist living in London, produced a distillate which he called "ether," but kept the method of production a secret. Stahl, in Berlin, produced ether in 1731, and this, too, was called "sulphuric ether," as it was regarded as a modification of sulphuric acid until 1807, when Boullay showed that it could also be made by using phosphoric acid.

C. W. Long, Athens, U.S.A., narcotised some patients with ether in 1843, but did not publish any account of the effects. About the same time, Charles Jackson, a Boston pharmacist, tested the soporific effect of ether on himself, and its complete anæsthetic effect upon some of his students. Jackson communicated with a Mr. W. T. G. Morton, a dental practitioner, and sug-



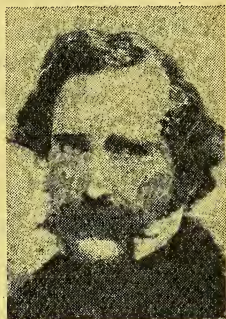
sted to him the use of ether as a narcotising agent during the extraction of eth. So successful were the results, that Morton suggested its use in surgery to a Dr. Warren, and on October 17, 1846, in the presence of some of his colleagues, Warren removed a tumour from the neck of a man under the influence of ether. At first, Jackson and Morton kept the nature of their compound a secret, and tried to take out a patent for it. But the odour of the ether soon gave away the secret in America, and thence also in Europe. Jackson subsequently published an account of the discovery in a letter read at the Academy of Paris on January 18, 1847. Within a short time the fame and virtues of ether were known in every part of the civilised world, and its manufacture on a commercial scale was started in Edinburgh in the same year.

### Chloroform

Professor James Young Simpson, Edinburgh, published, in November 1847, some observations that had been made on women during labour. He had experimented with a considerable number of liquids of an ethereal nature without obtaining good results, until at last he tried chloroform, a small quantity of which had been given him by that distinguished chemist, Thomas Graham. Among the various objections raised against the use of ether or chloroform, particularly in Scotland, was one based on theological grounds. This was supported chiefly by the scriptural text, "In sorrow thou shalt bring forth children" (Genesis, 3. 16). Simpson replied to this criticism in a paper "Answer to the Religious Objections Advanced Against the Employment of Anæsthetic Agents in Midwifery and Surgery" (Edinburgh, 1847). This was followed by another paper in the same strain written by a London surgeon, Prothero Smith, "Scriptural Authority for the Mitigation of the Pains of Labour by Chloroform."

### Ethyl Chloride

For some years, ether, in the form of a spray, had been employed to produce anæsthesia of superficial parts of the skin or mucous membrane, the insensibility being in some measure induced by the resulting cold. Szymann ("Therapeutische Monatschafte," 1888) seems to have been the first to recommend the use of ethyl chloride instead, and also to recommend its use as a means of producing a complete narcosis by inhalation.

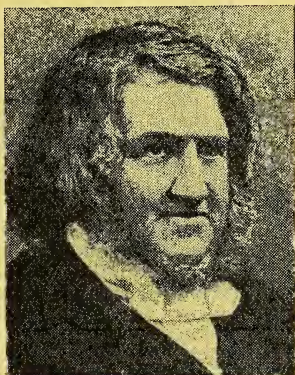


William Thomas Green Morton (1819-1868), American dentist who introduced ether anæsthesia to the medical profession.

### Nitrous Oxide

Priestley discovered nitrous oxide gas in 1776, and called it "dephlogisticated nitrous air." Humphry Davy discovered its composition and, in 1779, found out its intoxicating effect by experimenting upon himself. But although he knew of the intoxicating effect of the gas, he did not know that it could produce complete insensibility. Wells, an American dentist, having witnessed the intoxicating effects of the gas at a lecture on chemistry, conceived the idea in 1844 of using it for the purpose of lessening sensibility. He had a decayed tooth extracted during narcosis induced by nitrous oxide, and so successful was the operation that he made great efforts to introduce this method for general use. The introduction, however, of ether and chloroform a few years afterwards made this impossible. In 1868 the action of the gas was thoroughly investigated in Europe, and on March 31 of that year, at the Dental Hospital in London, the first tooth was extracted while the patient was under its influence. Since then the use of nitrous oxide has been indispensable in dental operations.

A large number of substances and mixtures of one sort and another have been suggested for inhalation anæsthesia instead of chloroform and ether. The latest newcomer is trichloroethylene, first used in this country a few years ago, but there is considerable doubt whether this will displace ether altogether.



Sir James Simpson (1811-1870), first to use chloroform in childbirth.

## SOME TROPICAL DISEASES AND THEIR TREATMENT

by C. B. Holliday, M.P.S.

(Concluded from THE CHEMIST AND DRUGGIST, November 11, p. 516)

### Diseases due to Animal Parasites

SCHISTOSOMIASIS or bilharziasis is a disease of the intestinal and urinary tracts due to infestation by species of the trematode worm, *Schistosoma*. The worms are widely distributed, and schistosomiasis is prevalent in Africa, where it is due to *Schistosoma hæmatobium* and *S. mansoni*, and especially in Egypt and areas irrigated by the Nile. *S. hæmatobium* is also found in Western Asia and the near East, while *S. mansoni* is responsible for the disease in South America. *S. japonicum* infestations are found in Japan, China, the Philippines and other parts of the Far East.

The larva or miracidium of the parasite develops in an intermediate host—a species of fresh-water snail. In Egypt the miracidia of *S. hæmatobium* pass into *Bulinus truncatus*, *B. dybowskii* or *B. innesi*, those of *S. mansoni* into *Planorbis boissyi*. In the host the larva develops into a sporocyst, which multiplies to form daughter sporocysts. These, in turn, produce large numbers of ciliated organisms known as cercariæ, which are discharged into water. The cercariæ are capable of penetrating unbroken skin or mucous membrane, and thus entering the blood stream of man. Thence they pass to the liver, where they develop into the adult form and where the female produces eggs.

Adult *S. mansoni* and *S. japonicum* are found in the portal vein, and result in intestinal infestation. The eggs, which are laid in the lining tissues, pass out by the rectum. *S. hæmatobium* inhabits the pelvic plexuses, and the eggs are laid in the bladder wall to pass out with the urine. They hatch in fresh water, and the life cycle starts again. It is possible that troops returning to this country may bring the parasite with them, and although the known hosts are absent in Great Britain, some indigenous snails may prove capable of acting in the place of them—that associated with liver fluke in sheep, for example. Control of schistosomiasis consists, as in all helminthic diseases, in breaking the life cycle. With *Schistosoma* this is most easily done by concentrating on the host and the environment outside the body; by eliminating the snails with a one-part-per-million copper sulphate solution; by screening the snails

off from water supplies by fine-mesh coverings; and by destroying the cercariæ by chlorination or cresylation. In a endemic areas every care must be taken to ensure the purity of water supplies.

### Symptoms and Treatment of Bilharziasis

Infection of the bladder is first shown by the passing of urine containing blood, the hæmorrhage being due to wounds made in the walls by the spined eggs. In intestinal infections, the symptoms may not at first be noticed, but eventually ulcers are formed, which set up diarrhoea and dysentery. Later stages, in both urinary and intestinal infections, may be slight or serious. Antimony and potassium (or sodium) tartrate injected intravenously is effective, but it has been largely replaced by stibophen, with which cures are obtained in the majority of cases. Stibophen is particularly useful in treating infestations due to *S. hæmatobium*. Where the patient is intolerant to antimony, and in young children, intramuscular injections of emetine hydrochloride may be given. Emetine periodide has been well reported upon.

### Filariasis

Filariasis is a general term under which are classified nematode infections due to worms of the order *Filarioidea*. It includes the disease due to the guinea worm and known as dracontiasis. The *Filarioidea* are thread-like worms which inhabit the glands and lymph vessels, connective tissue and body-cavities. The guinea-worm disease (dracontiasis) mainly affects natives, and is common among Indian and native troops. Cases may occur among white personnel. The condition is common in East Africa, Persia, India and parts of tropical South America. It is caused by *Dracunculus medinensis*, the female of which is sometimes as long as 3 ft. The male worm, which is rarely longer than 1 in., dies soon after fertilising the female. The worm, containing the embryos, moves towards the surface of the skin, where it forms a blister. This, on contact with water, effects the discharge of the embryos, a process which takes several weeks.

The embryos inhabit a cyclops, *Cyclops quadricornis*, as an intermediate host. When this is swallowed (in the drinking water, for example) the larvæ escape from



the dead cyclops into the body. There is some obscurity regarding the stages between the entry of the larva and the presence, about a year later, of the gravid male at the surface of the skin.

The presence of the guinea worm causes certain discomfort, but few other symptoms until the worm reaches the surface of the skin, when urticaria may appear and there may be nausea and vomiting, occasionally with slight fever. The affected part is touched with water until the worm has discharged its embryos. When this has been done, the worm may be withdrawn, great care being taken to prevent its rupture. The precaution is specially important where the worm is deep-seated. Injection of phenothiazine in the neighbourhood of the worm facilitates its removal, as does also the injection of anaesthetics to inhibit movement, or of antiseptics such as mercuric chloride, to kill the worm.

#### Other Nematode Infections

Numerous other infestations are due to the filarioid worms, the most important being due to *Wuchereria (Filaria) bancrofti* which is common in tropical Africa, South America, India, China, the West Indies and

the Pacific Islands; to *Loa loa*, known only in West Africa; and to *Onchocerca volvulus* and *O. caecuticus*, found in tropical America.

*W. bancrofti* produces obstruction of the lymphatics, causing chyluria and elephantiasis. The worm is  $\frac{1}{100}$  in. in length and is contained in a sheath which it does not completely fill. Its intermediate hosts are species of mosquitoes, in particular *Culex fatigans* and *Aedes variegatus*.

The embryos of *W. bancrofti* are found in the peripheral blood at night, and are sucked up by the mosquito, in which larvae are produced. From the larvae they enter the skin of man and pass to the lymphatics and mature, forming large numbers of embryos (microfilariae). The embryos in the peripheral blood may be destroyed by antimony and potassium (or sodium) tartrate, or by arsenicals, but the drugs have no effect upon the adult worm.

*Loa loa* causes subcutaneous swellings of considerable size, which soon disappear and reappear elsewhere. The worm often affects the eye. Similar swellings are produced by *Onchocerca* species which are transmitted to man by the bite of certain flies of the order *Simuliidae*, and known in some parts of the world as sandflies.

## MEDICAL ABSTRACTS

**Action of Penicillin on Staphylococci.**—A commonly accepted belief is that penicillin is merely bacteriostatic in action, though some workers assert that it is also bactericidal, but only when in concentrations higher than those attainable in the human body. Bigger ("Lancet," October 14, p. 497) gives an account of experiments which seem to show that penicillin is bactericidal to *Staphylococcus pyogenes*. He attributes the failure to sterilise broth containing *S. pyogenes* to the survival of a number of staphylococci, to which he gives the name of "persisters." He believes that these persisters are insensitive to penicillin, because they are temporarily in a non-dividing phase, and because penicillin only kills bacteria which are about to divide. Unlike resistant strains, descendants of persisters are easily killed by penicillin. When penicillin fails to cure staphylococcal infections in the body it is because some of the cocci are in the persister phase. The author suggests a system of treatment in which penicillin is alternatively administered and withheld, in the hope that bacteria in the persister phase will divide during an intermission, and be killed by penicillin when its administration is resumed.

**Sulphonamides in Meningococcal Meningitis.**—A report on sulphonamide therapy for cerebro-spinal fever, issued by the Department of Health for Scotland, traces the behaviour of the disease in Scotland during the past forty years and analyses the records of 2,223 cases between 1936 and 1941, according to the specific treatment methods employed (none, serum alone, sulphanilamide, sulphapyridine, sulphathiazole, other miscellaneous sulphonamide drugs, and sulphonamides with serum or antitoxin). Use of the sulphonamide drugs is recorded to have caused a reduction in the fatality rate of 16.7 per cent. Mortality rates were found to be closely associated with age, the maximal rates being found at ages of under two and over thirty-five years. No clear advantages seem to be possessed by the three main sulphonamide drugs (sulphanilamide, sulphapyridine and sulphathiazole) over any other member of the group, and no precise indication is given of the optimum amount of the drug which should be employed. Seventy to 80 per cent. of the cases were clinically cured with sulphonamide drugs within a period of four weeks. A wide variety of complications was met with.

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DL. CXLII      DECEMBER 16, 1944      NO. 3384

*The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.*

## Proprietary Medicines Advertising

At the Pharmaceutical Society's Council meeting on December 5, the following resolution, moved by Mrs. J. K. Irvine, was passed:—

"Since there is a widespread abuse in the advertising of certain proprietary medicines, this Council considers the time is now ripe for appropriate steps to be taken so that the public can be protected against this type of misrepresentation. Consequently this Council asks the Minister of Health to set up a department to supervise advertising of medicines and medical and surgical appliances so that no advertising which is inconsistent with the spirit of the White Paper on Health Service should be put before the public."

While no right-thinking person will quarrel with the object of the resolution, i.e. the supervision of proprietary medicine advertising, the resolution itself, as officially reported, is vaguely worded and lacking in any definite proposal to meet the problem. Indeed, such a problem exists. Briefly, three points are made by the mover: (1) A "widespread abuse" in the advertising of "certain proprietary medicines" is alleged

against which the public should be protected; (2) the Minister of Health should be asked to set up a department to supervise advertising of proprietary medicines and medical and surgical appliances; (3) the standard of watchfulness is to be based on "the spirit of the White Paper."

It is difficult to comment on the first point in the absence of specific information, such as the names of the defaulting proprietary medicines and medical and surgical appliances, or of the discussion that preceded the passing of the resolution, but it must be assumed that the Council had before it some sort of evidence that the "widespread abuse" as described in the resolution does, in fact, exist to an extent sufficient to justify the drastic action proposed. No information is provided as to the types of advertising media used to carry the alleged "abuse," but in view of the voluntary censorship already exercised both by newspapers and the leading manufacturers of proprietary medicines through their trade associations, it is hardly likely that these quarters have been in serious error. Further, the advertising of medicines for a considerable number of diseases is already prohibited by Acts of Parliament, so it cannot be claimed that the public is without protection against misleading advertising where these diseases are concerned.

With regard to the second point (the proposed setting up of a Government department to supervise the advertising of proprietary medicines), it seems unnecessary to employ sledge-hammer tactics to crack the nut of "certain proprietary medicines" which, in view of existing safeguards such as, for instance, the C.F. standards scheme, must be few in number and small in importance. The resolution, it should be noted, avoids the use of the word "control," preferring to substitute "supervise," presumably in the naive hope that the Ministry of Health will assume the rôle of a watchdog.

Apparently it will be necessary for the standard of watchfulness outlined in the third point to be translated into a set of rules by means of which the advertising material for proprietary medicines and appliances is to be judged. It will be

interesting to learn who is to frame the rules, assuming such a procedure is possible under such nebulous terms of reference. This part of the resolution, it seems, is a contradiction in terms if by the "spirit of the White Paper" is meant the supply of *all* medicines free of cost to patients under the terms of the National Health Service.

## Register of Closed Businesses

IN their own interests, traders who have withdrawn from retail non-food businesses on their own account during the war should apply to be included on the Board of Trade Register and List of Withdrawn Retail Traders. At present licences are required under the Location of Retail Businesses Order to open most types of retail non-food businesses and also to carry on the services mentioned. The Government have decided that this Order will be continued for some time after the war is over. During the transition period licences will be granted as a matter of course to people on the Register who wish to re-establish themselves in their former businesses, either in the same premises or in other premises in the same area. If a trader is not registered the grant of a licence may be delayed. Another reason for registration is that unless a closed business is registered, the Licensing Committees will often not know about it, and therefore cannot consider the interests of the owner when they are dealing with current applications for licences.

### How to Apply for Registration

Traders are eligible for registration if they have closed a retail shop during the war and for war reasons; if their business was carried on for a substantial period before it was closed, and if they traded in goods or services covered by the Location of Retail Businesses Order, which include drugs, medicines, medical and surgical appliances, photographic goods of all kinds, optical goods, toilet goods and preparations and perfumery. Traders who ceased trading through selling their businesses as going concerns are not eligible for the Register, but their names will be included on a Supplementary List. This List is a record of information about such businesses, which may be important particularly when, owing

to war circumstances, there was a forced sale. Application forms for registration (R.T.R. 2) and copies of an explanatory leaflet may be obtained from Chambers of Commerce, Chambers of Trade, Citizens Advice Bureaux or the Board of Trade (R.T.R.), Neville House, Page Street, London, S.W.1. There is no registration fee, and all information given by applicants is treated as confidential.

### Forces Overseas

Men and women serving overseas may prefer to apply by proxy (usually a relative or other representative) to save postal delays. If, for some special reason, the ex-trader himself is unable either to apply or to authorise another person to do so, a member of his family can apply for him, giving details of the exceptional circumstances. Traders who have ceased trading in shops in which they carried on a retail business in these goods or services would come within the scope of the Board of Trade Register and List of Withdrawn Retail Traders.

## The "C. & D." Diary and Year Book, 1945

A START has been made on the dispatch to subscribers of *The Chemist and Druggist's Diary and Year Book, 1945*. Owing to the pressure of work at the Post Office it is possible that some delays may occur, but we hope that home deliveries will be completed by January 1.

### Features of the 1945 Diary

An important and topical feature of this year's *Diary*—the seventy-seventh in the series—is an informative article on the subject of "Pay-as-you-earn Income Tax," dealt with from the point of view of the small employer. This describes the normal procedure to be followed, and goes on to discuss the exceptions, as well as instructing what to do in the event of over-payments of tax and solving other points of special difficulty. Those—and they must form the bulk of subscribers—who make constant use of the addresses of trade and public bodies will appreciate the facility resulting from the fact that we have this year separated the "Public Offices and Associations" into



two distinct sections, the first entitled "Drug and Allied Trade Associations," and including wholesale and other bodies which do not appropriately come under the heading "Pharmaceutical Organisations," and the second "Public and Professional Offices,"

in which we list not only Government Departments, but also scientific and technical societies and associations likely to be of interest to pharmacists and others engaged in the drug and ancillary industries. In view of the interest which is being shown in the question of reforms in the law relating to patents, the opportunity has been taken to include information on the requirements of the law as it stands at present. Comparison is thus made possible and simple with the statements which have been issued in recent months by interested parties such as the Chartered Institute of Patent Agents, Imperial Chemical Industries, Ltd., Boots Pure Drug Co., Ltd., and the British Chemical Committee. The pages dealing with the Poisons and Dangerous Drugs Regulations have been revised and are correct as at October 1, 1944; that is to say, modifications are likely to be expected from legal decisions arrived at subsequent to that date. Other regular features have been given the customary revision, and one or two features which have proved popular in past years have been revived. Notable among these is the article on "Registration of Business Names." Once again the "Buyers' Guide" and "Trade Addresses" provide the most complete index to the trade available, and there is no need to dwell on the attractiveness and colourfulness of the advertisement pages, which speak for themselves.

#### Recent Changes of Officers

Subscribers are asked to note the following changes which have taken place in the Secretaries of local associations and branches of the Pharmaceutical Society since the *Diary* went to press:—

#### PHARMACEUTICAL ASSOCIATIONS:—

CROSBY PHARMACISTS' ASSOCIATION.—Fred Fleetwood, 177 College Road, Crosby, Liverpool, 23.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION (1890).—G. T. Butterworth, 97 Uxbridge Road, Shepherd's Bush, London, W.12; Assistant, D. R.

Evans, 15 Elgin Crescent, Kensington, London, W.11; Social, W. T. Pratt (unchanged).

WESTON-SUPER-MARE ASSOCIATION OF PHARMACISTS.—H. M. Lovell, 38 St. James Street.

#### BRANCHES OF THE PHARMACEUTICAL SOCIETY:—

BATH.—T. Swain, Stonecroft, Wellsway.

SHEFFIELD.—S. Durham, 29 Stephenhill Road, Sheffield, 10.

Attention is also directed to a slip inserted in the *Diary* which gives the current officers of the Pharmaceutical Society of Ireland and a paragraph additional to the postal information at the end of the diary pages proper.

## NEW BOOKS

#### Concise Pharmacology and Therapeutics.

—F. G. Hobart, Ph.C., and G. Melton, M.D. 8½ in. by 5½ in. Pp. 168, 12s. 6d. Leonard Hill, Ltd., 17 Stratford Place, London, W.1. This second edition is almost completely rewritten. Many new and important drugs which have come into use within the last few years are concisely dealt with, space being found by minimising or excluding drugs of minor medical importance. To expound the art of prescribing, numerous prescriptions are given in the text, but the examples, being mostly of the kind found in hospital formularies, i.e., stock mixtures, are hardly relevant to the true art of prescribing, which is surely to administer the correct mixture and dose for an individual patient.

**Pharmacology.**—J. H. Gaddum, Sc.D., M.R.C.S., L.R.C.P., 8½ in. by 5½ in., pp. 460. 21s. Humphrey Milford, Oxford University Press, Amen House, Warwick Square, London, E.C.4. The author is Professor of Pharmacology in the University of Edinburgh. After a chapter on diet, the work proceeds to give an account of the vitamins and hormones, and passes on to drugs acting on the central nervous system, brain, sensory nerves, motor nerve endings, muscles, alimentary canal, etc. Next comes a chapter on proteins, toxic elements, and substances which destroy life (including disinfectants). Two chapters on chemotherapy deal with drugs acting on worms and protozoa, malaria, trypanosomes, syphilis, and leprosy, rounding off with up-to-date accounts of the latest additions to the pharmacologist's armamentarium: the sulphonamides and penicillin.

## PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held on December 5 and 6, the president (Mr. F. G. Wells) in the chair. All members of Council were present except Professor W. J. Dilling, from whom an apology for absence had been received.

### Tuesday's Proceedings

On the motion of MRS. J. K. IRVINE, the following resolution was passed: "Since there is a widespread abuse in the advertising of certain proprietary medicines, this Council considers the time is now ripe for appropriate steps to be taken so that the public can be protected against this type of misrepresentation. Consequently this Council asks the Minister of Health to set up a department to supervise advertising of medicines and medical and surgical appliances so that no advertising which is inconsistent with the spirit of the White Paper on Health Services should be put before the public." (Editorial comment, p. 639.)

### Sale of Chemicals to Children

The Council authorised publication of the following statement: "Several accidents have recently occurred which emphasise the need for greater discrimination in the supply of chemicals to school children. Opinions may differ as to the extent to which chemicals should be supplied to school children for the purpose of private experiment, either with or without assurances from teachers or parents to the supplier. These accidents serve to show, however, that powerful oxidising and reducing agents and other substances liable to produce violent effects should in no circumstances be supplied to children for this purpose, and pharmacists are advised to refuse all requests from school children for such substances."

It was reported that the Lord President of the Council had issued a direction authorising similar arrangements for the 1945 Council election to those made in 1944. Recommendations of the Parliamentary Fund Committee concerning steps to be taken to augment the fund and to make contact with pharmacists who were contemplating standing as parliamentary candidates were adopted.

### Correspondence

Letters were received from Crosby Pharmacists' Association urging the Society and the National Pharmaceutical Union

to formulate one plan representing the view of pharmacists on a national medical service for joint presentation to the Ministry of Health, and stating that the Association viewed with concern that the White Paper proposals on a national medical service allocated for payment to doctors and chemists a sum based on pre-war remuneration which, so far as payment to chemists was concerned, was totally inadequate; from Coventry and Warwickshire Branch drawing the attention of the Society to the demobilisation of pharmacists and asking that the Society should do all in its power to press for the inclusion of pharmacists in the highest priority class for demobilisation; and from the Clerk of the Council, Privy Council Office, approving the appointment of members of the board of examiners for England and Wales and Scotland for 1945.

### Interrupted Apprenticeships

A report was received on discussion between representatives of the Society and the National Joint Industrial Council for Retail Pharmacy concerning an invitation from the Ministry of Labour and National Service to the J.I.C., to prepare a scheme for assisting persons whose apprenticeships had been interrupted by war service. The outcome of the discussions was that the J.I.C. would confine itself to dealing with persons serving apprenticeships without intending to qualify as pharmacists. This did not imply that the J.I.C. was in favour of any form of apprenticeship in retail pharmacy other than that under articles of pupilage registered with the Society.

Consideration was given to a statement of views on the vocational training of disabled persons, a matter which the J.I.C. proposed to submit to the Ministry of Labour and National Service in response to an invitation. The Council had no comment to make upon the views expressed.

### Rodent Destruction Materials

It was reported that, following representations from the Ministry of Food Infestation Branch that some difficulty had been experienced in obtaining from pharmacists supplies of materials recommended for rodent destruction, arrangements were being made for the matter to be dealt with locally through branches of the Society, and a communication would be sent to branches on the matter.



It was reported that the Central Pharmaceutical War Committee and Scottish Central Pharmaceutical War Committee had issued the statement given below.

### Demobilisation Proposals

In the early months of this year the Central Pharmaceutical War Committee furnished the Ministry of Health with proposals for the demobilisation of pharmacists and dispensers. In the memorandum submitted to the Ministry of Health the following proposals were made:—

(1) That pharmacists and dispensers should be demobilised on a basis of age and length of service.

(2) That, during the period of demobilisation, the Central Pharmaceutical War Committee should be the channel for applications for the release of certain individual pharmacists or dispensers on the basis of civilian needs.

(3) That, in the event of recruitment continuing after the cessation of hostilities, the present machinery for the withdrawal of men from civil life should be continued.

Pharmacists and dispensers, though not specifically mentioned in the recently published Government plans for the reallocation of manpower between the Armed Forces and civilian employment in the interim period between the defeat of Germany and the defeat of Japan, will be eligible under Class A for release on a basis of age and length of service.

They will not form one of the "occupational classes" to be specified by the Ministry of Labour and National Service as "required for certain urgent reconstruction employments," men belonging to which will be specially transferred from the Forces under Class B. Provision is, however, made under Class B for the transfer of a limited number of "individual specialists" for whose transfer application may be made through Government Departments. It is understood that applications in respect of pharmacists and dispensers will be entertained in exceptional cases where their return to civilian life is considered essential for civilian pharmaceutical needs. Men so transferred from the Forces under Class B will be liable to be recalled to the Forces if they discontinue the civilian work for which they were transferred.

Applications for transfer cannot be considered until the general demobilisation scheme is put into operation, and will be subject to conditions which will be published at that time. In the main the civilian service must rely for reinforcement upon those pharmacists and dispensers who are demobilised in Class A. The Government plans also provide for the continued recruitment of young men in order to facilitate the release of more groups in Class A and to compensate for any transfers from the Forces under Class B.—HUGH N. LINSTAD

JOSEPH TAIR, Secretaries.

### Wednesday's Proceedings

THE PRESIDENT reported, with great regret, the death of Mr. W. F. Hay, Aberdeen (a member of the North British

Executive and former chairman of that body), and MR. A. A. MELDRUM paid a tribute to Mr. Hay's qualities. The death of Professor J. H. Priestly (University of Leeds), a member of the board of examiners, 1926-39, was also reported.

The following have been appointed examiners for the Diploma in Biochemical Analysis in England: Messrs. H. E. Archer, M.R.C.S., L.R.C.P., F.R.I.C., Ph.C., and H. H. Barber, Ph.D., B.Sc., F.R.I.C.; the following have been appointed examiners for Scotland: Messrs. F. J. Elliott, M.Sc., Ph.D., F.R.I.C., and C. P. Stewart, M.Sc., Ph.D.

The minutes of the Education, Benevolent Fund, Establishment, and Finance Committees were agreed to.

### Financial Prospects

MR. H. C. SHAW, speaking on the estimates for 1945, said the estimated increase in income was roughly £24,000, and the estimated increase in expenditure about £4,000. The main increases came from increased fees, which accounted for about £22,000. The Committee anticipated that the same number of retail shops would be in existence, and that the figure would be stationary. They had, of course, the voluntary fee, which had brought in about £4,500 in the previous year. On the expenditure side the main increases were on the College and in law and administration. Increased administration expenses were chiefly due to an extension of war bonuses, etc., and the law increase was to provide for the inspectors returning from the Forces. Altogether they were left with a surplus, subject to the Schedule A income tax on the requisitioned Brunswick Square building, and possibly other items there, of about £16,710, and it was the direction of the Council that £15,000 of this should go into the new premises fund. The balance was for the development of the post-war activities of the Society. Some part of that had already gone into organisation, a little bit was going into the "Pharmaceutical Journal," and in various ways they were getting back as they could. In war-time things were topsy-turvy. It was not possible to estimate with the same degree of accuracy as in normal times. The position really was not too easy, and he was not over-optimistic. On the capital side they were not anticipating any expenditure on the new building during the coming year. They had about £100,000 in hand for that purpose, and, if and when the opportunity came, a scheme for raising the

remainder would be submitted. Whether the scheme was in the form of bonds issued to members over a period of time at a rate of interest he did not know.

MR. J. F. McNEAL (vice-president) said the surplus of £17,000 odd was a paper surplus. How much of the surplus would be left to them at the end of the year would depend, to some extent, upon the chairmen of the committees. The surplus would gradually go, as they knew, by supplementary estimates, and he felt the Council should look closely into any supplementary estimates, unless they were going to finish with that surplus, which they needed so much for purposes of the new building and other matters.

MR. SHAW said a very important point had been raised by the vice-president. They

would, as the vice-president had pointed out in his remarks, have to go very carefully on the expenditure side.

MR. F. C. WILSON, who moved the minutes of the Organisation Committee, said a lecture had been arranged for January 11 on "The Health Services of the Soviet Union"; the minutes were agreed to. The minutes of the Public Service Committee, moved by MR. McNEAL, were approved in committee. The minutes of the War Aid Committee, which were submitted by MR. W. DEACON, recorded that grants had been voted to four out of five applicants for assistance. Since the beginning of 1942, 543 parcels of tinned foods had been received from pharmacists in Australia and New Zealand for bombed chemists.

## REPORT ON DRUG SAMPLINGS

THE report of the Birmingham city analyst for the third quarter of 1944 states that 1,379 samples were taken. Of these, 121 were drugs, and twelve drug samples were found incorrect. A sample of "Cod liver oil emulsion with hypophosphites of lime and soda" was labelled with approximate amounts of hypophosphites of sodium and calcium and hypophosphorous acid, but the sample contained none. The back of the bottle bore a statement that the Ministry of Health had forbidden the further manufacture of hypophosphites and that, in consequence, the emulsion was being prepared without these ingredients. The analyst regarded it as unfortunate that the slip label was placed on the back of the bottle. A sample of health salt, stated to contain 45.5 per cent. sodium bicarbonate, 35.1 per cent. tartaric and citric acids and 18.9 per cent. sodium sulphate contained, owing to interaction, much less of the first three ingredients but some excess of sodium sulphate. The makers are now using a revised formula. A liniment stated to be a mixture of tincture of capsicum, 100, and glycerin, 5, was found to contain only 1.5 per cent. glycerin, while the tincture was made with methylated spirit. The retailer was cautioned. A sample of Parrish's food contained only 0.68 per cent. ferrous phosphate against 0.70 per cent., the remaining iron having been precipitated as insoluble ferric phosphate. The makers replaced the faulty bottles by supplies of recent manufacture. A bottle labelled "Improved Parrish's Chemical Food" did not correspond to the formula of the B.P., containing only 0.96 per cent. calcium

phosphate against 1.4 per cent. It was pointed out that the word "improved" was hardly applicable to a product containing 30 per cent. less of one of the principal constituents, and the manufacturer agreed to revise the formula.

A sample of rose-hip syrup which had fermented showed a deficiency of 40 per cent. in vitamin-C content. The makers pointed out that the preparation could only be made once a year, as fresh rose hips were used, and that there was a progressive loss of vitamin during months of storage; they had tried to make up the loss by adding 10 per cent. during manufacture.

### Stone in Senna Pods

A sample of senna pods contained a stone which weighed 5 per cent. of the whole. The suppliers said that the pods as imported always contained grit, which they removed by shaking the pods through a  $\frac{1}{2}$  in. sieve, and that either the cleaning had failed to dislodge an adherent stone or the contamination was accidental, occurring during storage by the retailer. Three samples of seidlitz powders showed carelessness in weighing, which was attributed by the makers to the type of labour they had to employ. A promise was given to carry out more check weighings. A sample of fifty sodium citrate tablets marked "3 grains" contained thirty-six genuine 2-gr. tablet and fourteen containing 1.72 gr. The retailer's explanation was that the tablets were supplied from an old container with an indistinct label which was read as "3-grain tablets" but must have been "2-grain."



## MANY-SIDED DISCUSSION AT BIRMINGHAM

MEETING of the Birmingham Pharmaceutical Association and local branch of the Pharmaceutical Society was held on November 29. The chair was occupied by the President (Mr. L. H. Teare), and the subject was "The Future Relation of Pharmacy to the National Health Service." Mr. F. R. C. WATSON (head of the department of pharmacy, Central Technical College) was the chief speaker. He was of opinion that all dispensing under the new service should be carried out entirely by registered pharmacists.

### Retail Point of View

Mr. H. H. MARSHALL, giving the retail chemist's point of view, said that adequate staff was the first essential to operate any service, and he was convinced that, provided the chemist exercised vision, he would be able to reorganise his business to accommodate the new service; he believed that the general public would prefer to have prescriptions dispensed by the retail chemist. Features which must be secured were: Separation of prescribing from dispensing; provision of medicines through panel chemists (except for patients of hospitals and similar institutions); remuneration on a reasonably adequate basis; and suitable representation for pharmacy in the bodies controlling the service.

### Considered as a Whole

Mr. H. S. GRAINGER (secretary of the local branch, Guild of Public Pharmacists) said the position of all pharmacists should be considered as a whole. The work should be done only by registered pharmacists, who should be well trained in up-to-date methods. They should be prepared to render professional advice to the medical profession and the local authorities when required. It seemed advisable that at least two registered pharmacists should be employed at each set of premises, and that pharmacists should form their own committees to look after their own interests, and not wait for official organisations to be developed. The committees could elect their own representatives to the National Health Services Council. The out-patients' departments of hospitals should continue to deal with serious cases referred to specialists in the hospitals. Health centres should only be organised in districts where existing practitioners' services were inadequate to meet the requirements of the service. The meeting was then thrown open for

discussion. Mr. E. W. MANN expressed surprise that Mr. Grainger had suggested that a full dispensing service would be available in all institutions, many of which had a long way to go before they could undertake such a service.

Mr. OLIVER said that, notwithstanding Mr. Marshall's case for the retention of the dispensing service by the retail chemist, the introduction of health centres was bound to come, and fifty years or less would probably see the end of the retail dispensing chemist.

Mr. C. H. ADAMS expressed the view that the retail pharmacist would find himself well able to handle the new service, and enumerated other ways in which the retail pharmacist served the public.

Mr. BUCHAN viewed with great dissatisfaction the present remuneration for N.H.I. dispensing, and considered that the chemist could not afford to neglect his counter trade on account of dispensing.

### Pharmacy's Chance

Mr. A. H. MOSELEY said pharmacy's chance had come to break away from trade and establish itself as a true profession; an adequate fee would then be essential.

Mr. MARTIN questioned whether the number of errors with fatal results attributed to hospital dispensaries was not higher than the figure for retail dispensaries. He also complained of the exhibition by a certain multiple firm of posters advertising "N.H.I. dispensing while you wait." It was only reasonable to assume that these shops found themselves in a more advantageous position than private pharmacists in regard to staff.

Mr. BALL expressed concern at the continuous increase in official control and interference with the responsibilities of the individual.

**Wasted Effort?**—From our standpoint we are more than ever convinced that the proper study of mankind is man, and that until our research workers, many of whom have no medical qualification, recognise this cardinal fact no real progress towards the cure of disease will ever be achieved. It is all very well to publish the results of elaborate research work on animals, but if these results have no bearing on human disease such publications are a sheer waste of printer's ink as well as of our present precious paper supply.—"The Prescriber."

## ULSTER CHEMISTS' ASSOCIATION

THE annual meeting of the executive committee of the Ulster Chemists' Association was held in Belfast on December 5, when office-bearers for the year were elected. MR. H. P. CROSSIN (president), in proposing the election of Mr. A. E. Johnston as his successor, expressed confidence that in him they would have a man whose attendances at committee and subcommittee meetings was ample proof of his interest in the affairs of the Association. Before vacating the chair MR. CROSSIN thanked the other officers and members of the executive committee for loyal support during the year. He had had practical proof of their regard in February, he said, when they made a presentation to him on the occasion of a happy event in his family. He would always cherish their gift as a reminder of a happy year. MR. A. STEEDE seconded the proposition, and Mr. Johnston was elected *President* with acclamation.

### Presidential Address

MR. JOHNSTON, in his presidential address, said that in the past that committee had been fortunate in its choice of presidents. Members had been served—and in no small measure guided—by a succession of presidents who had proved themselves wise and tactful, especially in matters pertaining to the well-being of Ulster's retail drug trade and in furthering the Association. He therefore felt inadequate; even more so when he visualised some of the problems to be encountered. The committee, although it still included many of the older stalwarts, was being kept up to full strength with new blood. In particular the ladies who had been introduced during the past year had given valuable help, especially in social affairs, and members from Bangor, Larne and Lurgan had proved their worth. During five years of war, chemists in Northern Ireland had had their share of personal inconvenience and difficulties. They had nevertheless a great deal to be thankful for, having been spared much that their English friends had had to suffer. The war in Europe at that moment was being fiercely contested, but the end, they all believed, was now definitely in sight. With the European war over, a considerable burden would be eased, and they should be able to reach forward and put their shops in order so that they might receive their full and just share of the better times that lay ahead. He feared, however, that, with the end of hostilities, their burdens and

difficulties in the pharmacy world would not be entirely removed, for a time anyhow.

There would be the major issues connected with the National Health scheme which he thought could be set out under two main headings: Were chemists to provide from their existing pharmacies service for dispensing and the supply of all necessary medicines, drugs and appliances. Their schooling and specialised training together with the disposition of their pharmacies throughout the cities, towns and villages, entitled them to assert that they were able to give a completely adequate and efficient service. They were willing to co-operate with the Government but would not accept a scheme in which the bulk of the dispensing was to be done through health centres, and in which they received only the thankless duty of filling in the gaps. They could rely on the backing of the public, who, after all, must have the last word. Secondly, what remuneration or payment was to be made for the various medicines, drugs and appliances and what dispensing or professional fee? Both these had been grossly insufficient up to the present. They were becoming a matter of bitter controversy and reproach amongst pharmacists.

### Appeal for Support

THE PRESIDENT made a strong appeal for intensified and increased support of the Association. After a number of years of constant work on the part of the executive committee, especially by the efforts of its officers and the efficiency of its office staff, there had been built up a strong Association. They now had numerical strength, but they had not yet achieved, as they should and must, that unity in the ranks which would enable them, with a membership of nearly 500, to speak with a united and forceful voice on any matter of general concern. There was no dissension but a certain apathy amongst a percentage of their members. He suggested that in the coming year they should organise a "get together" policy. There, he firmly believed, lay the future success of pharmacy in Northern Ireland. That was to be accomplished, first, by organising local committees, both in the country areas, where they were not already functioning or had lapsed, and in the city, where the need was equally important. Secondly, by sending deputations from that committee to various centres from time to time to help



em to get together and sort out their problems and grievances, and to hear their voice on any important matter that might confront the pharmaceutical trade. The third point in the programme was the promotion of further social functions. These had proved an outstanding success, and were, it was thought, leading to a better feeling and understanding in the trade. The final item was propaganda, a powerful weapon if wielded in the right way.

The committee hoped that registration of the Chemists Friends' Association as a trade union would result in the carrying out of a more positive C.F. policy. He understood that it would now be possible to introduce the window display conditions and to insist upon the conditions being carried out.

The immediate past-president (Mr. Hugh Rossin) had expressed his desire to see a trade system devised which would establish permanently the earlier closing hours most of them had enjoyed. Should the extended health service come into operation, either the Government or public opinion might require something by way of late service.

THE SECRETARY (Mr. James McClenahan) reported that the Ministry of Health and Local Government had turned down again the Association's request for the appointment of two practising pharmacists to the Health Advisory Committee, and he was directed to raise the matter at the next meeting of the Chamber of Trade. It was so decided to have a question asked at the next meeting.

Other appointments of officers were: *Vice-president*, Mr. T. A. Gibson; *Treasurer*, Mr. W. J. Rankin; *Honorary Secretaries*, Messrs. R. Gibson and J. C. Acheson; *Auditors*, Messrs. J. A. McRoberts and Joseph Wellwood; *Representatives on Belfast Chamber of Trade*, Messrs. C. Abernethy (president, Pharmaceutical Society of Northern Ireland) and J. McClenahan (secretary, Ulster Chemists' Association); *Representative on Ulster Tourist Development Association*, Mr. W. C. Tate; *Representatives on the Joint Council of the Association*, the president and vice-president (*ex-officio*), with Messrs. E. A. Richey and J. McGregor; *Representatives on Associates' Committee*, Messrs. P. R. W. Shinner and R. A. McEwen. Mr. P. Mallie, Ph.C., was elected to membership of the Association in succession to Mr. T. Lyttle, Aughnacloy. Twelve associates elected at the previous meeting of the Associates' Committee were approved. The new president subsequently entertained the company to supper.

## TRADE MARKS

(From "The Trade Marks Journal,"  
November 22)

- "ESSONIA"; for industrial chemicals (1), colouring matters for food (2), essences for food, and flavourings (none being essential oils), invert sugar and vinegar, etc. (30). By W. Ryder & Co., St. Andrew's Works, Bradford, Yorks. 629,887, and 629,888, 629,890 (both Associated).
  - "SOPRONOL"; for chemical substances to prevent mildew, food preservatives, etc. (1), for chemical disinfectants, pharmaceutical preparations, fungicides, etc. (5). By The British Arkady Co., Ltd., Skerton Road, Old Trafford, Manchester, 16. 630,075-76 (both Associated).
  - "PERSIFOOT"; for pharmaceutical preparations for the feet. By J. W. Ross, Hadleigh, Cherry Walk, High Salvington, Worthing. 629,883.
  - "PAPARIN," "PERHALAN," and "TRANSHALAN" for pharmaceutical preparations (5). By Silten, Ltd., 14 Weedington Road, London, N.W.5. 630,593-95.
  - "WALTON"; for apparatus (and parts thereof) for administering anæsthetic gases and oxygen (10). By The British Oxygen Co., Ltd., Grosvenor House, Park Lane, London, W.1. B628,055.
  - "VELVATISSUE"; for cleaning tissues, paper towels, paper toilet seat covers, etc. (16). By Interlake Tissue Mills Co., Ltd., c/o Raworth, Moss & Cook, 75 Victoria Street, London, S.W.1. 626,652 (Associated).
  - "LI-LOLASTIC"; for rubber, artificial rubber, synthetic rubber, and articles made therefrom (17). By P. B. Cow & Co., Ltd., Factory Square, Streatham Common, London, S.W.16. 630,121 (Associated).
  - "MIRRA-GENE"; for hair curlers (26). By G. Beaver, 30 Overton Road, Leicester. 630,224.
  - "RENE"; for edible oils and fats, etc. (29), cereals and honey, etc. (30). By Rene Food Products, Ltd., 66-68 Andover Road, London, N.7. 629,562-63 (both Associated).
  - "BURALAC"; for flavourings for food (other than essential oils), etc. (30). By The Scottish Flavour & Colour Co., Ltd., 27-29 Ratcliffe Terrace, Edinburgh. 629,978.
- CONVERSION OF SPECIFICATIONS, SECTION 36 (3) and RULES 6-8. From Schedule III to Schedule IV. Specification No. 383,285 (5) by The D.D.D. Co., Ltd. Pharmaceutical preparations and substances for human use; insect-repelling preparations for personal use.

(From "The Trade Marks Journal,"  
November 29)

- Device of lady having her hair dressed by hair-dresser; for perfumery, toilet preparations, cosmetics, hair sachets, etc. (3). By Coiffeur Supreme, Ltd., 4 Quadrant Arcade, Regent Street, London, W.1. 629,219.
- "SANTOBRITE"; for insecticides, germicides, algicides, bactericides, and disinfectants (5). By Monsanto Chemical Co., c/o Stevens, Langner, Parry & Rollinson, 5-9 Quality Court, London, W.C.2. 629,520.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

### 28 Essex Street, W.C.2, December 13

THERE is a fairly steady tone about the markets generally, but the approaching end of the year is already beginning to be felt in various directions. The week has been devoid of special interest, and practically all prices are unaltered, with no notable change in the supply position. In PHARMACEUTICAL CHEMICALS, one price advance has been notified—an increase of twopence per lb. in LACTIC ACID, B.P., CALCIUM LACTATE and CALCIUM SODIUM LACTATE. Business in this section has been about average, with fair supplies of most products available to buyers.

Dealers in CRUDE DRUGS report quiet conditions, with some inquiry. Spot stocks of Sumatra BENZOIN are practically exhausted, and a high price is mentioned for any remaining small supplies. CHILLIES, CLOVES and other spices seem to be in rather better demand, but prices are without change. COLOCYNTH is quiet. ERGOT remains in meagre supply, with the price maintained. GUM ACACIA is firm, and supplies are not plentiful. No more DRAGON'S BLOOD may be obtained at present. The cheaper parcels of JABORANDI LEAVES have been cleared and the article is now quoted at a higher price. Some inquiry is noted for SEEDS, but no price changes have occurred. TURMERIC is firmer on spot, with rather more inquiry received.

ESSENTIAL OILS are again without change in price, either in oils imported by the Ministry of Food or in the few remaining lots outside the scope of the Control. The schedule of prices of refined oils and imported edible animal fats allocated to primary wholesalers and large trade users by the Ministry of Food is unchanged for the next eight-weeks' period, December 10, 1944, to February 3, 1945, inclusive.

### Pharmaceutical Chemicals

ACETANILIDE.—Crystals are priced at 2s. 5d. per lb., and powder at one penny per lb. extra.

BORIC ACID.—B.P. quality is quoted by makers as follows: Granulated, £70 per ton; crystal, £71; powder, £72. Packed in one-cwt. bags, delivered carriage paid in Great Britain in one-ton lots and upward. Commercial grades £8 per ton less.

CITRATES.—Makers quote POTASSIUM per lb., in 28-lb.—1 cwt. lots, as follows (containers in

brackets): 3s. 3½d. (1-lb.); 3s. 2d. (4-lb.); 3s. 1d. (7-lb.); 3s. 0½d. (14-lb.); 3s. (28-lb.). IRON AND AMMONIUM (SCALES), B.P., is at 3s. per lb. above, and SODIUM is at 1d. per lb. below these prices; POTASSIUM and SODIUM POWDER, 1d. per lb. extra.

DEXTROSE.—Current prices per lb., in lots of 28-lb.—1 cwt., are as follows (containers in brackets): 1s. 2½d. (1-lb.); 1s. 1½d. (2-lb.); 1s. 0¾d. (4-lb.); 11¾d. (7-lb.); 11¼d. (14-lb.); 10¾d. (28-lb.).

LACTATES.—Prices have been advanced by twopence per lb. New rates are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb. smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb.; 14-lb., 3s. 4d.; 28-lb., 3s. 2d., granular one penny per lb. extra.

PILOCARPINE.—Makers quote at the following rates per oz.: Base, 1 oz., 27s.; 4 oz., 21s. 3d.; 8 oz., 20s. 9d.; 25 oz., 20s. 3d. Nitrate, 1 oz. 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

TERPINEOL.—Pure medicinal quality is available at from 3s. 3d. to 4s. per lb. for antiseptic of the chloroxyleneol type.

VANILLIN.—The agreed prices are unchanged as follows: 5 cwt., 21s. per lb.; 1 cwt., 21s. 3d.; 56 lb., 21s. 6d.; less than 56 lb., 21s. 9d. per lb.

### Crude Drugs

AGAR.—As noted last week, higher prices are now in force for shred and powder. Strip remains at 30s. per lb.

ARECA NUTS.—Dealers' current quotation for wormy Ceylon is steady at 90s. per cwt. ex store.

BALSAMS.—Peru is steady at 7s. 9d. per lb. and Canada at 9s. 9d. Copaiba and Tolu are unobtainable.

BELLADONNA.—Indian leaf is firm on spot at from 6s. 1d. to 6s. 3d. per lb., according to alkaloidal content. Some low-testing root (0.25 per cent.) is priced at 2s. 2d. per lb.

BENZOIN.—Supplies of Sumatra are practically exhausted.

CARDAMOMS.—Aleppy greens on spot are quoted at 5s. 6d. per lb., Aleppy seed at 6s. 6d., and split seed at 5s. 6d.

CHAULMOOGRA.—Hydnocarpus, spot, 1s. 9d. per lb., in tins in cases.

CHILLIES.—Mombasa is quoted at 110s. per cwt.; no other varieties are available at present.

CLOVES.—No change in the spot price of Zanzibar at 1s. 4½d. per lb.

COLOCYNTH.—Current spot price is steady at from 2s. 7½d. to 2s. 9d. per lb., according to holder,



**DIGITALIS LEAVES.**—No change has occurred the price of Portuguese leaf at 140s. per cwt., in that of the English leaf at 2s. 6d. per lb.

**ERGOT.**—Good-quality material would be worth 6s. 6d. per lb.

**GUM ACACIA.**—Spot price of Kordofan cleaned sorts is steady at 80s. per cwt.; bleached, spot, noted at 185s.; Talha, cleaned, 50s. per cwt., ended.

**HENBANE.**—Indian, 250s. per cwt.; Russian, 10s.; Egyptian (*muticus*), 75s. A parcel of w-testing Indian is offered at 6d. per lb.

**JABORANDI.**—Spot price substantially dearer 62s. 6d. per cwt., with supplies now scarce.

**KAMALA.**—Material with 6 per cent. ash is noted on spot at 2s. 6d. per lb.

**MERCURY.**—Official quotations range from 8 10s. to £69 15s. per flask, according to conditions and quality, with higher prices for smaller lots and re-distilled grades.

**NUTMEGS.**—West Indian, wormy and broken, 10s. 6d. per lb.; sound unassorted, 1s. 9d.

**NUX VOMICA.**—Cochin, spot, steady at 1s. 6d. per cwt.; shipment, 35s. c.i.f.; Canada seed, shipment, 32s. 6d. per cwt., c.i.f.

**PEPPER.**—Maximum prices of whole pepper, not picked over or cleaned, on sale to processors, 1s. 4d. per lb. for white and 1s. per lb. for black.

**PIMENTO.**—Spot sellers continue to quote 33d. per lb.

**QUASSIA.**—Spot quotations are from 37s. 6d. 40s. per cwt., according to quantity.

**RHUBARB.**—Stocks are becoming severely diminished; price, 14s. per lb., nominal.

**SEEDS.**—Quiet and without price change. Current rates are as follows: **CORIANDER.**—Indian, 75s. per cwt. **CUMIN.**—Maltese, spot, 95s.; Indian, 100s. **DILL.**—90s., ex wharf.

**FENNEL.**—Offered at 85s. **FENUGREEK.**—May be had at 80s. **MUSTARD.**—Controlled prices are unchanged.

**SENA.**—Alexandrian medium pods are at 1s. per lb.; Tinnevely, manufacturing grade, 1d. to 6½d.; hand-picked, 8½d. to 1s.; broken Alexandrian leaves, 1s. 3d. to 1s. 4d.; siftings, 1s. 2d.; Tinnevely, No. 1, 9d. to 10½d.; No. 2, 1d. to 7½d.; No. 3, 5½d. to 6d.

**SHELLAC.**—Traders may now claim from the Ministry's stocks certain grades for re-export to approved destinations. Further information may be obtained through the usual channels.

**SQUILL.**—Portuguese, dried and sliced, 75s. per cwt.; Indian, 60s.

**STRAMONIUM LEAVES.**—Dealers offer East Indian leaves at 80s. per cwt.

**STROPHANTHUS SEED.**—100 per cent. Kombé seed may be obtained on spot at 7s. to 7s. 6d. per lb., according to quantity.

**TRAGACANTH.**—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, 85s.; pale leaf, £60; amber leaf, £50; dark amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

**TURMERIC.**—Sound-quality Madras finger may be obtained on spot at 60s. per cwt.

**WAXES.—BEES'.**—Supplies continue to be available only through members of the Association of Merchant-Distributors of Beeswax, Ltd., at the following prices per cwt., delivered at store U.K., effective from October 16, for ton lots: Madagascar crude, 205s. to 230s.; other sorts of crude, 238s. to 245s. (Calcutta sorts unavailable); British refined, 275s. to 305s.; British bleached slabs, 300s.; British bleached discs, 320s.; Lots of under one ton, at premiums as follows: 10–20 cwt., 2s. 6d. per cwt.; 5–10 cwt., 5s. per cwt.; 1–5 cwt., 10s. per cwt.; under 1 cwt., at premiums as arranged by Association members at their discretion. **CARNAUBA.**—Fatty grey, 480s. per cwt., ex store, in minimum one-bag lots; shipment, 395s., c.i.f.; Primeira, 535s. per cwt., ex store; shipment, 450s. c.i.f.; medium yellow, nominal; shipment, 440s. c.i.f.; chalky grey, nominal; shipment, 380s., c.i.f. (c.i.f. prices include ½ per cent. W.R.I.). **CANDELILLA.**—Under 1 ton, 220s. per cwt.; 1–5 tons, 217s. 6d.; 5 tons and over, 215s., ex store.

## Essential and Expressed Oils

**ANISE (STAR).**—No change in the supply or price position. Small quantities are reported offering at 160s. per lb.

**CASTOR.**—“Firsts” are officially quoted at £82 per ton, and “seconds” at £80, both naked ex works, in bulk lots.

**CITRONELLA.**—Ceylon, spot, approximately 21s. per lb.; Java, scarce at 27s. 6d.

**CLOVE.**—No change in English distillers' prices at 12s. 6d. to 13s. per lb., according to quantity.

**COCONUT.**—Refined deodorised is officially priced at £49 per ton, and refined hardened deodorised at £53 for bulk supplies.

**EUCALYPTUS.**—For oil containing 70 to 75 per cent. cineole, about 8s. per lb. would be asked.

**GINGERGRASS.**—If available, small spot supplies would fetch approximately 22s. 6d. per lb.

**OLIVE (EDIBLE).**—The price charged to the wholesaler by the importer is 25s. 9d. per gallon, ex store. Prices charged by wholesalers to retailers are agreed by the Ministry of Food as follows: 33s. 6d. per gallon, in 1-gallon loan cans; 34s. 3d. per gallon, in ½-gallon loan cans; 35s. per gallon in 1-quart loan cans; 36s. per gallon in 1-pint loan cans.

“C. & D.” Quiz No. 43.—The answers to the questions on p. 631 are: 1. Lead acetate. 2. Pulv. cinnamomi co., B.P.C. 3. Pil. aloes et myrrh., B.P.C. 4. Oleum lubricans, B.P.C. 5. Bunsen and Kirchhoff, 1859. 6. Injectio camphoræ æthereæ, B.P.C. 7. Tilia, the dried inflorescence with bracts of *Tilia europæa*. 8. Ammonium carbonate. 9. A drug that lessens brain excitability or activity. 10. Humphry Davy, by Napoleon.

## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### Dilutions of Dangerous Drugs

SIR,—We are indebted to you for your report about four recent actions at Stirling (*C. & D.*, December 9, p. 602) and your admirable note at p. 613. As regards the report at p. 602, it is only right, however, to mention that the position is made clear in Martindale in the sections on cocaine, morphine and Dangerous Drugs respectively. When we stated to the sheriff that the accused had been misled by their professional guide, there was some mention of Martindale, and it was unfortunately assumed that this was the book to which we were referring. In point of fact, the references in court to Martindale were not as definite as the short report suggests. We shall be obliged if in your next issue you will make it clear that Martindale does deal with the matter, and that our reference to "the Chemists' Bible" was intended to refer, not to Martindale, but to two other well-known publications. We shall fully explain the position to the sheriff on January 11, and on that occasion shall try to avoid mentioning any other names.

Yours faithfully,

Edinburgh, 3. J. MILLER THOMSON & Co.

[It was our intention to comment on the points raised after the decision in the cases had been announced.—EDITOR.]

### A Serving Pharmacist Looks Ahead

SIR,—Pharmacists serving with the Forces today can be found wherever detachments of the Royal Army Medical Corps are operating, from the malaria-infested hills of Burma to the equally unhealthy regions of West Africa. Some are engaged in the dispensaries of large base hospitals; while others have a more active life with field units. A few, it is true, have forsaken the Medical Corps, and are to be found in combatant units of the Army and in the other services. As the great majority of us, however, will be returning to pharmacy when our demobilisation papers are eventually received, the conditions prevailing in retail pharmacy at the time of our return to civilian life are naturally of vital interest to us. We are not always able to keep in touch with events in the pharmaceutical world at home, and this applies particularly to those of us stationed in the more remote parts of the globe. What little we have heard of the proposed reforms in

the State medical services makes no mention of the position the dispensing chemist will hold in the new order of things. I presume that the National Pharmaceutical Union is following events closely in order to protect the interests of its members. Are members at home giving their organisation their full and active support? From a recent letter, I learn that preparations are being made for negotiations with the Government in respect of the National Health Service and the dispensing chemist's remuneration. Upon this vital matter I hope that everyone is of one mind, and that during the past five years of war the state of apathy formerly so widespread amongst pharmacists has been replaced by a healthy spirit of co-operation. Surely these years have provided sufficient illustration of the necessity for combined and co-ordinated effort by all if satisfactory results are to be obtained! It is perhaps unfortunate that those of us who will be most affected by any new conditions introduced—the younger pharmacists—are not in a position to give their active support during the present discussions. It is left, therefore, to the older members to do the best for the profession as a whole by giving their full support to the N.P.U., upon whom the brunt of the work will fall.

P. F. SLOPER,

Sergeant, Royal Army Medical Corps.

### Panel Prescriptions in Scotland

SIR,—According to your report of the Conference of Branch Representatives (*S. C. & D.*, December 2, p. 593) Mr. Gilmour stated, apparently with pride, that the frequency of panel prescriptions in Scotland has been kept down to 1.75. When we recall that the remuneration of the Scottish panel chemist is about 9d. per patient per annum, against 1s. 9d. in England, that the Scottish panel doctor is continually in fear of over-prescribing, with its subsequent humiliation and the possibility of pecuniary penalty, and that the loss of working days through sickness is higher in Scotland than in England and Wales, it may be suggested that the record is one of which Mr. Gilmour should rather be a little ashamed. Medicine is the only weapon man has in his war against disease, and the supply of medicines in Scotland leaves much to be desired.—Yours faithfully,

Glasgow, S.W.I. J. M. WILLIAMSON.



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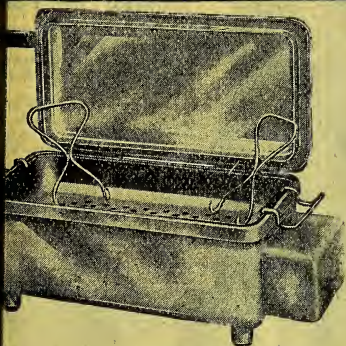
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
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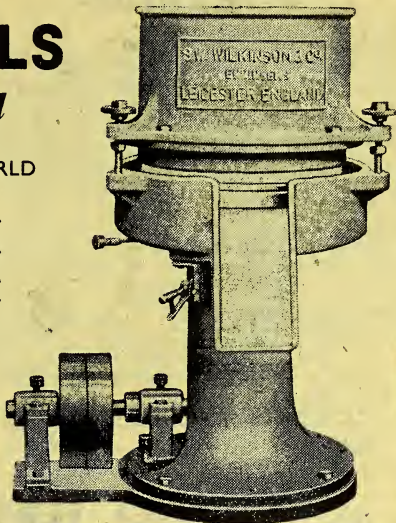
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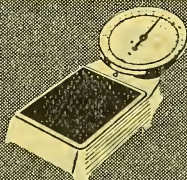
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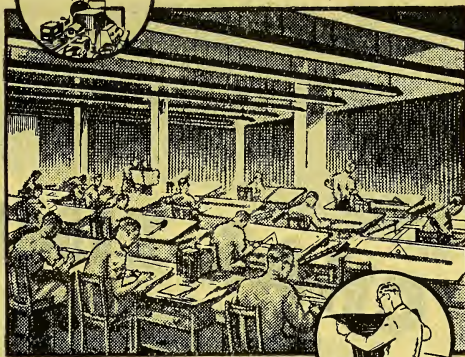
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# The CHEMIST AND DRUGGIST

## SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

DECEMBER 16  
1944

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## WHOLESALE

**CHEMIST-CHEMICAL Engineer** requires position as Works Manager or Development Manager. Has experience in development and production of pharmaceuticals, pharmaceuticals, synthetic vitamins and vitamin extracts. Good labour controller. 587/176, C. & D. London Office.

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**REPRESENTATIVE**, well-known, having an extensive and thoroughly established connexion with the Chemists throughout the whole of Yorkshire, would be pleased to hear from up-to-date Firms (C.F. members preferred) requiring Representation, 589/206, C. & D. London Office.

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**WILL** Employers who require a Biochemist, Ph.D., F.R.I.C., to initiate, develop and organise the manufacture of Biochemical Products, control personnel, lay out plant, etc., communicate with 590/219, C. & D. London Office.

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**A LARGE** and well-known firm of Manufacturing and Distributing Agents will be for disposal shortly. Large turnover and exceptionally good profits. The price of this business will be in the region of £40,000-£45,000, and only principals are invited to reply. Bankers' references required. Write in first instance, 590/231, C. & D. London Office.

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**LONDON Manufacturers** open to consider any new lines for post-war development, especially Food and Chemical Products; replies also invited from Patentees, Exporters, Importers and Technical Experts generally. 589/188, C. & D. London Office.

**SALES** organisation with complete coverage United Kingdom and Eire prepared to market one or two non-competitive proprietaries. Principal has personal contact, wholesalers, multiples, co-operative societies, and all big buyers. Can act as consultant on any subject appertaining to marketing and packaging of all products. CDB/349, C. & D. London Office.

**TABLET Manufacturers** are in a position to undertake further contracts for tableting of Saccharin. Good deliveries at competitive prices. Write 590/222, C. & D. London Office.

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**FOR Sale.** At prices recently valued by trade expert, complete Mahogany Fixtures of exceptionally well-fitted shop. For detailed valuation and order to view apply 589/210, C. & D. London Office.

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**HILLIER, PARKER, MAY & ROWDEN.** Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Owners contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Rowden, 77 Grosvenor Street, W.1.

## APPOINTMENTS

**ASSISTANT Pharmacist** required by Middlesex County Council at Hillingdon County Hospital, Hillingdon, nr. Uxbridge, Mx. Candidates must hold one of Pharmaceutical Society's qualifications. Commencing salary £250 p.a. Increments of £10 up to £300 p.a. considered annually. Additional cost of living bonus (now £49 11s. p.a.). Unestablished staff. Whole-time duties under Medical Director. Application, stating age, nationality, qualifications and experience, enclosing copies of not more than three recent testimonials to Medical Director "I.I." of Hospital. Application forms not provided. Male candidates should state position with regard to military service. Closing date December 20, 1944.

### CITY OF PLYMOUTH CITY GENERAL HOSPITAL (360 Beds)

Applications are invited for the post of **PHARMACIST** (male or female) at the City General Hospital. Applicants must be either registered as a pharmaceutical chemist or a druggist and chemist. Applicants with previous hospital experience preferred.

Salary is at the rate of £275 per annum rising by £15 annually to £350 per annum. Any other fees received by the officer must be refunded to the Council.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and is terminable by three months notice on either side at any time. The successful candidate will be required to pass a medical examination.

Applications stating age, qualifications, and experience, together with copies of two recent testimonials, should be sent to the undersigned as soon as possible.

T. PEIRSON,

Seven Trees, Medical Officer of Health.  
Lipson Road,  
Plymouth.

### COUNTY BOROUGH OF SOUTHEAST-ON-SEA SOUTHEAST MUNICIPAL HOSPITAL ROCHFORD, ESSEX

The Health Committee of the Council invite applications for the post of Non-Resident **ASSISTANT PHARMACIST** at the above Hospital. Candidates should hold one of the Registrable qualifications of the Pharmaceutical Society. The salary is at the rate of £250 per annum, rising by increments of £10 up to a maximum of £300, plus cost of living bonus at present £49 8s. per annum for males, and £40 6s. for females. The provisions of the Local Government and Other Officers Superannuation Act, 1937, will apply, and the person appointed must satisfy the Council's Medical Examiner. Applications forms, which can be obtained from the Medical Superintendent of the Hospital, must be completed and returned to him as soon as possible.

H. J. WORWOOD,  
Town Clerk.

December, 1944.

## WANTED

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**ASPIRIN** Powder, Crystals, Grans., and 5-grain tablets, required in large or small quantities. Highest market prices paid. 442/304, C. & D. London Office.

**ASPIRIN** Powder, Crystals, Tablets wanted actual user. Highest market prices paid. 578/714, C. & D. London Office.

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**CASH** Registers, National, Remington, Gledhill. Wanted for spot cash. All sizes, immaterial, any quantity entertained. Amalgamated Business Machines, Ltd., 64 Mortimer Street, Oxford Circus, W.1. Phone MUSEUM 0941. Repairs, Sales Exchanges, Supplies, Rolls, Ribbons, etc.

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**WANTED** Urgently, 4 oz. Medical Flat Bottle. Any quantities, 100 gross to 1,000 gross, for prompt cash. 590/217, C. & D. London Office.

**WANTED** to purchase, Cameras, Enlargers, and all photographic Apparatus, Exposure Meter Tripods, etc., Microscopes, Binoculars, Cine Camera and Projectors. Prompt cash and high prices offered. Wallace Heaton, Ltd., 127 New Bond Street, London W.1.

**1-OZ** and **1-oz.** Bottles, either screw cap or cork, for 2 well-known Packing House. 590/220, C. & D. London Office.

## MISCELLANEOUS SALES

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**CASKS** for Sale, 20 in. x 29 in., 4s. 6d. each, in lots of 30. Not suitable for liquids. Stocks in London ready for immediate delivery. 584/913, C. & D. London Office.

**CELLOPHANE** Envelopes,  $3\frac{1}{4} \times 4\frac{1}{2}$  inch. 120,000 in boxes containing 2,000 each for disposal. Minimum supplied 10,000. Offers required for parcel or the lot. Stock guaranteed perfect. Stannard Distributing Agencies, Tadworth, Surrey.

**FOR** Sale: Aniseed Oil B.P., one 6 lb., one 5 lb. tin at 152s. 6d. per lb.; 14 lb. Clove Oil B.P. English distilled, at 10s. 6d. per lb.; Pineo Non-poisonous Disinfectant, 5 gallons, at 7s. 6d. per gallon, 10 gallons at 7s. per gallon. Carriage paid. Write Henshaw, M.P.S., 97 Clearmount Road, Weymouth.

**LIMITED** quantity Lipstick Containers, tube type plastic material (bakelite type), 11 mm., push-on 10s. per dozen, plus P.T. Send 1s. 6d. for samples. Medo-Chemicals, Ltd., 178 Pentonville Road, London, N.1.

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